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**BULLETIN**  
—OF THE—  
**AGRICULTURAL EXPERIMENT STATION**

.. OF THE—

Louisiana State University and A. & M. College.

WM. C. STUBBS, Ph. D., Director and State Chemist.

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**Analyses of Commercial Fertilizers and Paris Green,**

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ISSUED BY THE LOUISIANA STATE BOARD OF AGRICULTURE AND  
IMMIGRATION,  
J. G. LEE, COMMISSIONER.

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BATON ROUGE, LA.

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1902.





# Louisiana State University

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LOUISIANA STATE UNIVERSITY AND A. AND M. COLLEGE,

OFFICE OF STATE EXPERIMENT STATION,

Baton Rouge, La., September 1, 1902.

*Major. J. G. Lee, Commissioner of Agriculture and Immigration,  
Baton Rouge, La.:*

DEAR SIR:—I hand you herewith analyses of Commercial Fer-  
tilizers and Paris Greens, made in the laboratories of the Station  
since last season.

Respectfully submitted,

WILLIAM C. STUBBS,

Director and State Chemist.

## REPORT OF THE DIRECTOR AND STATE CHEMIST.

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The analyses of commercial fertilizers contained in this report are of four kinds:

1. Samples selected at the discretion of the Commissioner of Agriculture and inspectors for purpose of inspection.
2. Samples drawn by the purchaser, under regulations prescribed by the Commissioner of Agriculture.
- The above are required by law.
3. Samples used by the Stations.
4. Samples sent by private parties.

While the Station is not required by law to work for private parties, yet all samples sent by individual citizens of the State will be analyzed without charge; *provided*, the means of the Station will permit; *provided*, always, that in the discretion of the Director such analysis will be conducive to public welfare.

Under the fertilizer law, every citizen of the State is amply protected from fraud and imposition by unscrupulous dealers, and there exists absolutely no cause for distrust in the purchase of commercial fertilizers, if the farmer will but claim the protection afforded him. The sellers of good wares are also protected, as ample facilities are afforded them of properly advertising their goods.

### AMENDMENT TO PRESENT FERTILIZER LAW.

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During the last session of the Legislature the following act was passed amending the present fertilizer law. The object of this amendment is to include among materials subject to the provisions of the fertilizer law all cotton seed meal sold for fertilizing purposes. With this Act in effect only the following materials are now exempt from the law: *Lime, Ashes, Land Plaster and Salt.*

#### AN ACT

To amend and re-enact Sections 1 and 2 of Act No. 126, of 1898, entitled "An Act to carry into effect Article 306 of the Constitution of the State of Louisiana; to define the duties and powers of the State Board of Agriculture and Immigration, and those of the Commissioner of Agriculture and Immigration in relation to the suppression of adulteration and fraud in the sale of commercial fertilizers in conformity therewith; to provide for the inspection and analysis of all commercial fertilizers sold for use in the State of Louisiana, and for the payment by the



seller of the inspection fees therefor; to authorize the appointment of fertilizer inspectors, to provide for guarantees of the component chemicals contained in fertilizers, and the affixing of tags to the packages thereof as evidence of the guarantee and inspection thereof; to prohibit the sale of illegal or fraudulent fertilizers in violation of the provisions of this Act, and affixing fines and penalties for the violation of the provisions of this Act; to provide for judicial proceedings in rem against fertilizers sold in contravention of this Act; to give the Commissioner of Agriculture and Immigration a privilege thereon, and the right to the writ of provisional seizure to conserve said privilege, and to define the methods of said procedure; to provide for suits for the recovery of fines and penalties and injunction under this Act, to provide for the distribution and expenditure of the fees and penalties collected under the provisions of this Act, and their appropriation to fertilizer experiment purposes, and to repeal Act No. 72, of 1894, in so far as it might operate in the future."

Approved July 13, 1898.

SECTION 1. *Be it enacted by the General Assembly of the State of Louisiana*, That section 1 of said Act, No. 126 of the regular session of the General Assembly of 1898, approved July 13, 1898, be amended and re-enacted so as to read as follows:

SECTION 1. That the State Board of Agriculture and Immigration shall have power to make and establish rules to carry out the designs and purposes of this Act, and in conformity thereto, for the purpose of maintaining effective control of the manufacture and sale in this State of all commercial fertilizers and cotton seed meal when sold or offered for sale as a fertilizer, and for the suppression of adulteration and fraud therein, as authorized by Article 306 of the Constitution of the State of Louisiana.

SECTION 2. *Be it further enacted, etc.*, That section 2 of said Act No. 126, of 1898, be amended and re-enacted so as to read as follows:

SECTION 2. That it shall be the duty of any manufacturer or dealer in fertilizers, or any person soliciting orders, whether by sample or otherwise, or whether such orders are to be accepted by him or his principal, for the sale of any commercial fertilizer (which term is intended to and shall include cotton seed meal when sold or offered for sale as a fertilizer, but shall not include lime, and plaster, ashes or common salt), before the same is offered for sale in this State, to submit to the Commissioner of Agriculture and Immigration for inspection and analysis fair samples of the same, which shall be analyzed by the official chemist, and to furnish a written or printed statement setting forth: first, the name and brand



under which said fertilizer is to be sold, the number of pounds contained or to be contained in the package in which it is to be put upon the market for sale, and the name of the manufacturer and the place or places of manufacture. Second, a statement setting forth the **amount of the named ingredients, which he or they guarantee** said fertilizer to contain—(1) nitrogen, (2) soluble phosphoric acid; (3) reverted phosphoric acid; (4) insoluble phosphoric acid; (5) potash. Said statement to be furnished accompanied by a sample or samples of the fertilizer to be inspected, and which shall be analyzed by the official chemist, shall be considered as constituting a guarantee to the purchaser that every package of such fertilizer contains not less than the amount of each ingredient set forth in the statement and contained in the sample or samples. This shall, however preclude the party making the statement from setting forth any other ingredients which his fertilizer may contain, which additional ingredients shall be considered as embraced in the guarantee above stated. That an inspection fee of twenty-five cents per ton upon any fertilizer sold for use in this State, shall be paid by the seller, solicitor or agents, etc., thereof, to the Commissioner of Agriculture and Immigration, which inspection fee shall cover the cost of inspection and analysis made by the Commissioner or the official chemist, or at the request of either the seller or the buyer, and the certificate to be furnished by the Commissioner. Payment of said inspection fee shall be evidenced by tags to be furnished by the Commissioner of Agriculture and Immigration sufficient in number to place one upon each package of fertilizer required to make up a ton according to the way in which the particular fertilizer may be packed and shipped.

#### COMMERCIAL FERTILIZERS.

All fertilizers sold on our markets are valuable just in proportion to the quantity and quality of the following ingredients, which they may contain, viz: Nitrogen (ammonia), phosphoric acid and potash. A fertilizer may contain one or two, or all of these ingredients, and may consist of (1) nitrogen (ammonia) alone, (2) phosphoric acid alone, (3) potash alone, (4) nitrogen (ammonia) and phosphoric acid, (5) phosphoric acid and potash, (6) nitrogen (ammonia) and potash, (7) nitrogen (ammonia), phosphoric acid and potash.

No. 7 is a complete fertilizer, *i. e.*, furnishing all three of the ingredients. These ingredients are combined in different proportions to suit the wants of different crops and different soils. No. 6 is rarely found in Southern markets, since nearly all Southern soils require phosphoric acid, and its absence renders it unadapted to wants of the farmer. The others are all found in our trade centers.

## (1) NITROGEN MANURES.

Nitrogen is the most fugitive as well as the most costly ingredient of fertilizers. It unites chemically with three parts of hydrogen to form ammonia (hartshorn of shops); every fourteen parts of nitrogen making seventeen parts by weight of ammonia. It also unites with oxygen to form the basis of nitric acid, two parts of nitrogen requiring five parts of oxygen, and this combination dissolved in water gives nitric acid, a form into which (it is believed) that all organic nitrogen must be resolved before it can serve as plant food. Nitrogen is offered to the trade in three forms, viz:

(a) Mineral nitrogen in nitrate of soda (containing when pure over 16 per cent. nitrogen), nitrate of potash (14 per cent.), and sulphate of ammonia (21 per cent.).

(b) Animal nitrogen in dried blood, tankage, azotin, cracklings, fish scraps, leather, wool waste, etc.

(c) Vegetable nitrogen in cotton seed, cotton seed meal, linseed meal, castor pomace, and peat.

Blood, tankage, fish scrap, and oil cake meals are highly active fertilizers, while leather, wool waste and peat are very slowly available.

In the Northern States the mineral forms, particularly nitrate of soda and sulphate of ammonia, are largely used for top dressing small grains and grasses, as well as in combinations with phosphoric acid and potash to make complete fertilizers for general use and are very highly esteemed. In the South, on account of the fear of loss by leaching from the soil, they are used with greater care and in much less quantities.

Cotton seed meal contains, besides nitrogen, small amounts of phosphoric acid and potash. A fair sample of meal, *free from hulls*, should yield 7 per cent. nitrogen, 3 per cent. phosphoric acid and 2 per cent. potash. This is a cheap source of nitrogen, and experiments have demonstrated that it is, perhaps, the best form for Southern agriculture. In buying it, however, *caution* is necessary to see that it is well decorticated, *i. e.*, free from hulls. Samples containing 30 per cent. of hulls have been found on the market.

## (2) PHOSPHORIC ACID MANURES.

These are generally phosphate rocks treated with sulphuric acid. Sometimes pure bones or bone black, or bone ash, are treated with the same acid, and resulting mixtures styled dissolved bones or superphosphates. When made from phosphatic rock, bone black or bone ash, they contain only phosphoric acid. When pure bones are used 3 to 5 per cent. of ammonia is also found. These

phosphatic manures usually contain their phosphoric acid in different forms. Some of it is readily soluble in water, and is highly available as plant food; some of it is only soluble in acids, and is, therefore, only slowly, if at all, available to plants, while another portion is intermediate in solubility between the water soluble and the acid soluble. The chemist uses citrate of ammonia to dissolve this form; and hence it is denominated as citrate soluble phosphoric acid. It is believed by many that this form of phosphoric acid has resulted from a chemical action of the water soluble upon the acid soluble, and hence it is often called "*reverted*," "*reduced*," etc. The water soluble is readily available on all soils and by all plants; the citrate soluble in soils containing vegetable matter, is believed to be available to many plants, while the acid soluble is not immediately useful to most soils. The water soluble and citrate soluble are usually taken together and called available phosphoric acid. In buying phosphatic manures, preference should be given, first to the water soluble, then to the citrate soluble. These three forms of phosphoric acid are usually called "*soluble*," "*reduced*" and "*insoluble*."

### (3) POTASH MANURES.

Formerly ashes were the only commercial source of potash, and even now are to be found on the market in the form of wood ashes and cotton seed hullashes. The latter are in demand by the tobacco growers of Connecticut. But ashes of all kinds have been nearly supplanted by the cheap and excellent potash manures from Stassfurth and Leopoldshall, Germany, which are now sold in every market. The German Kali works have established headquarters in this country, and are supplying the trade with every desirable form of potash. Those forms sold usually in the South are:

(a) Kainite, the crude product of the mines, and contains, besides potash, magnesia, soda, sulphuric acid and chlorine. This form is largely used in a compost of stable manure, cotton seed and acid phosphate prepared at home by the cotton farmer, or mixed acid phosphate and nitrogenous manures by the manufacturers for cotton fertilizers. It is extremely doubtful whether most Southern soils need potash; and every farmer should determine the question experimentally on his own soil before making excessive purchases of this ingredient. When potash is needed, this is a cheap and excellent source, containing about 12 per cent.

(b) Sulphate of potash, a refined product, containing a large amount of potash in every desirable form, is extensively used in some countries, upon certain crops, notably tobacco and Irish potatoes.

(c) Muriate of potash, another refined product, containing a



large percentage of potash. This salt furnishes potash in the cheapest form.

#### (4) NITROGEN AND PHOSPHORIC ACID.

Formerly a large number of fertilizers were found on our markets containing only these two ingredients, but recently, however, potash in some form has been added to them all. This addition has been made either to meet the requirements of the farmers or the inclination of the manufacturers to furnish complete fertilizers. Potash is cheap, and any demand for it is readily supplied. In Louisiana, where the use of potash manures has been found to be of little or no benefit, two fertilizers have become extremely popular and are extensively used, viz: tankage and a mixture of cotton seed meal and phosphate. Both may properly be located under this division, though strictly speaking the *mixture* would be excluded by virtue of the small content of potash in the cotton seed meal. The *mixture*, made in different proportions to suit different crops upon different soils, is very extensively used all over the State and gives general satisfaction. It also furnishes these two ingredients (nitrogen and phosphoric acid) in their cheapest and best forms.

Tankage is extensively used under sugar cane. It contains from 4 per cent. to 12 per cent. of nitrogen and 6 per cent. to 20 per cent. of phosphoric acid. It is a mixture of blood, meat, bones, etc., of the slaughter houses (from which the fat has been extracted), dried and pulverized. Its composition varies between wide limits, whether the blood and meat or the bones predominate. If the former, the nitrogen is high, and if the latter, phosphoric acid. It is the nitrogen which gives it its chief value, and the larger the quantity of this, derived from blood or meat (both highly available forms of nitrogen) the more valuable it becomes as a fertilizer. Neither the nitrogen nor the phosphoric acid in bones is readily available on most of our soils. Hence in buying tankage great care should be exercised to obtain as large a nitrogen content as possible.

Fish scrap might also be included under this head, since it contains only nitrogen and phosphoric acid, but so little is sold in this State as to merit only this passing remark.

Ground bones (raw and steamed) may also be included here. They are used to some extent by the truck growers of East Louisiana, and should be subjected to the same inspection as other fertilizers before use. Ground bones depend primarily for their value upon physical and chemical properties. They should contain from 3 to 5 per cent. nitrogen and 20 to 24 per cent. phosphoric acid and be very finely ground. They are slowly available at best, and

hence in using them with expectation of early returns, care must be exercised in securing them *very finely ground*.

#### (5) PHOSPHORIC ACID AND POTASH.

To make acid phosphates suitable for composting, many dealers have recently added potash. This addition necessarily lowers the percentage of phosphoric acid. Manufacturers in and around Charleston, S. C., have adopted the custom of calling this class of goods "Acid Phosphates," and those which contain no potash, "Dissolved Bones." These are extensively used in Georgia for the compost of stable manure and cotton seed, but in this State the pure acid phosphates has given very satisfactory results in the compost.

#### (6) NITROGEN AND POTASH.

The great and crying want of Southern soils is phosphoric acid; hence no manure without it has hitherto met with favor. Accordingly, this class of manure is rarely met with in the South.

#### (7) COMPLETE MANURES.

Containing nitrogen, phosphoric acid and potash, constitute the bulk of the commercial fertilizers offered the trade. These are generally made out of the different forms described under the previous heads, combined in such proportions as to meet the imagined or real wants of certain crops. For cotton they usually contain from  $2\frac{1}{2}$  to 3 per cent. nitrogen, 8 to 12 per cent. available phosphoric acid and 2 to 3 per cent. potash. For corn and cane the quantity of nitrogen is greatly increased, with a corresponding decline in phosphoric acid. Many Southern manufacturers of fertilizers are making most excellent wares, mixtures of cotton seed meal and phosphates and kainite. These mixtures, varying in proportion only, are applicable to most every crop grown in this latitude and are sold at prices satisfactory to buyers.

#### CAUTIONS IN BUYING FERTILIZERS.

Before purchasing, a farmer or planter should know the requirements of his crop and soil and then buy only such manures as will supply them. Then get the dealer or manufacturer to answer the following questions:

How much soluble phosphoric acid do you guarantee?

How much reverted phosphoric acid do you guarantee?

How much nitrogen or ammonia do you guarantee?

How much potash do you guarantee?

With the reply to these questions one can easily calculate the approximate commercial value of a ton of the goods desired.

In a plain acid phosphate at least 12 per cent. available phosphoric acid should be guaranteed.

In cane fertilizers, 3 per cent. nitrogen and 7 per cent. available phosphoric acid, and in cotton fertilizers 2 per cent. nitrogen and 8 per cent. available phosphoric acid should be the least quantities accepted.

#### VALUATION OF FERTILIZERS.

The commercial value of a fertilizer is regulated by the prices demanded in commerce for the different forms of the three ingredients, nitrogen (ammonia), phosphoric acid and potash. These prices fluctuate according to the demand and supply. In some parts of the North, nitrogen is assigned a separate valuation for each of its forms—that in nitrates and ammonia salts receiving the highest figure, and in leather and peat, the lowest.

In Connecticut and Massachusetts, a determination of the forms in which this ingredient occurs must be made before its commercial value can be calculated. All the forms of nitrogen have heretofore been considered of equal money value in the South and but one price assigned. This, of course, precludes the existence of nitrogen in form of leather dust, or powdered horn, forms regarded as unavailable and of little money or agricultural value.

The soluble and reverted forms of phosphoric acid have together been styled as "available," and assigned one value. The insoluble phosphoric acid has received no valuation. All forms of potash soluble in water have been regarded as of equal value.

The following tariff of prices has been adopted for the past and coming season:

Nitrogen, 12 cents per pound, which makes ammonia 9.9 cents per pound.

Soluble phosphoric acid, 5 cents per pound.

Reverted phosphoric acid, 5 cents per pound.

Potash, 5 cents per pound

The above prices may be used to illustrate the method by which the commercial value of a fertilizer may be approximately estimated, *e. g.*: A fertilizer containing by analysis the following:

Nitrogen, 3 per cent; soluble phosphoric acid, 6 per cent.; reverted, 4 per cent.; potash, 2 per cent. What is the approximate commercial value per ton?

A ton will contain:

60	pounds	nitrogen, 12 cents	.....	\$7.20
120	"	soluble phosphoric acid, 5 cents	.....	6.00
80	"	reverted phosphoric acid, 5 cents	.....	4.00
40	"	potash, 5 cents	.....	2.00

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Value per ton.....\$19.20



In this way the approximate commercial value of any fertilizer can be estimated. These prices are by no means fixed. They fluctuate almost daily in the markets of the world in accordance with the law of supply and demand. But the tariff given is believed to be nearly representative of the average of prices during the past year, and hence are adopted for the ensuing season.

#### LABORATORY WORK.

The following number of analyses have been made during the season just ended in the laboratories of the Stations:

Complete Fertilizers, .....	1,733
Tankages, .....	466
Bone Meals, .....	256
Acid Phosphates, .....	266
Cotton Seed Meals, .....	52
Kainites, .....	35
Fertilizers with available Phos. Acid and Nitrogen, .....	29
Acid Phosphates, with Potash, .....	91
Miscellaneous, .....	73
Total analyses, .....	3,001

#### AMMONIATED SUPERPHOSPHATES AND GUANOS.

Ammoniated superphosphates and guanos constitute the chief bulk of the fertilizers consumed by the farmers of the Southern States. The term "complete fertilizer" is often applied to them on account of the fact that they contain all three of the most essential fertilizing constituents, and their range of adaptability is, in consequence, much greater than that of any of the partial manures. As might be supposed, there is great diversity in the composition of fertilizers of this class, both as regards the proportions of the fertilizing ingredients and also the forms in which they are supplied, the quantities of these essential constituents being so regulated as to correspond with the manufacturer's ideas as to the demands of our principal crops.

The following were analyzed:

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
	Capital Fertilizer Co., Jackson, Miss. NONPAREIL.								
	<i>Guarantee</i> .....	7.00	2.00	1.00	10.00	9.00	1.50	...	2.00
820	Collins Bros., Tangipahoa .....	7.75	2.48	.77	11.00	10.23	1.33	1.61	2.44
916	Isador Mayer, Clinton .....	7.85	1.90	.45	10.20	9.75	1.62	1.97	2.30
1227	Simon Mayer, Slaughter .....	7.80	2.19	.56	10.55	9.99	1.50	1.82	2.37
1228	Simon Mayer, Slaughter .....	7.80	2.19	.56	10.55	9.99	1.50	1.82	2.37
1229	W. J. Heintzler, Ethel .....	7.80	2.19	.56	10.55	9.99	1.50	1.82	2.37
1230	Isador Mayer, Clinton .....	7.80	2.19	.56	10.55	9.99	1.50	1.82	2.37
1825	Simon Mayer, Slaughter .....	7.23	2.72	.94	9.95	9.01	1.90	2.31	2.08
2013	Simon Mayer, Slaughter .....	7.54	2.31	.70	10.55	9.85	1.76	2.13	2.19
	RED STAR BRAND.								
	<i>Guarantee</i> .....	7.00	2.00	1.00	10.00	9.00	1.50	....	2.00
1930	Isador Mayer, Clinton .....	7.25	2.30	.75	10.30	9.55	1.93	2.35	2.05
2360	Simon Mayer, Slaughter .....	7.45	2.55	1.00	11.00	10.00	2.08	2.52	1.89
	Hazlehurst Oil Mill and Fertilizer Co., Hazle- hurst, Miss. IMPERIAL.								
	<i>Guarantee</i> .....	7.00	2.00	1.00	10.00	9.00	1.65	2.00	1.50

274	Dollhonde & Co., Independence	7.97	1.89	2.43	12.29	9.86	1.66	2.02	1.93
353	B. M. Morrison, Hammond	9.15	2.29	2.54	13.98	11.44	1.65	2.00	1.48
425	I L. Sauls & Son, Arcola	8.56	2.09	2.48	13.13	10.65	1.66	2.02	1.70
426	B. M. Morrison, Hammond	8.56	2.09	2.48	13.13	10.65	1.66	2.02	1.70
427	G. W. Nesom, Tickfaw	8.56	2.09	2.48	13.13	10.65	1.66	2.02	1.70
672	B. M. Morrison, Hammond	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
673	J. R. Abels, Ponchatoula	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
674	John Sauls, Amite City	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
675	J. R. Abels, Ponchatoula	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
676	Jno. Tate & Co., Tangipahoa	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
677	Jno. Tate & Co., Tangipahoa	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
678	E D Reichert & Co., Roseland	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
679	R. A. Kent, Hyde	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
680	J. Sauls, Amite City	8.26	1.99	2.45	12.70	10.25	1.65	2.00	1.81
1136	R. L. Taylor, Tangipahoa	8.87	2.71	1.32	12.90	11.58	2.10	2.55	2.00
1137	Natalbany Lumber Co., Natalbany	8.87	2.71	1.32	12.90	11.58	2.10	2.55	2.00
1672	B. Stern, Amite City	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1673	J. R. Abels, Ponchatoula	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1674	B. M. Morrison, Hammond	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1675	J. H. Ellis, Kentwood	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1676	R. A. Kent, Hyde	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1677	R. L. Taylor, Tangipahoa	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1678	R. L. Taylor, Tangipahoa	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1679	R. L. Taylor, Tangipahoa	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
1680	R. L. Taylor, Tangipahoa	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
2462	L. F. Auze, Kentwood	8.22	2.40	1.90	12.52	10.62	1.83	2.22	1.85
2463	Mrs. B. Stern, Amite City	8.50	2.30	2.03	12.83	10.80	1.95	2.36	2.32
2611	I L. Sauls & Son, Arcola	8.50	2.30	2.03	12.83	10.80	1.95	2.36	2.32
2611	I L. Sauls & Son, Arcola	9.38	.87	2.45	12.70	10.25	1.88	2.28	2.01



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
Hazlehurst Oil Mill & Fertilizer Co., Hazlehurst, Miss. IMPERIAL—Continued.									
2612	I. L. Sauls & Son, Arcola .....	9.38	.87	2.45	12.70	10.25	1.88	2.28	2.01
2613	E. D. Reichert & Co., Roseland .....	9.38	.87	2.45	12.70	10.25	1.88	2.28	2.01
2614	E. D. Reichert & Co., Roseland .....	9.38	.87	2.45	12.70	10.25	1.88	2.28	2.01
2615	J. W. Brooke, Roseland .....	9.38	.87	2.45	12.70	10.25	1.88	2.28	2.01
2616	J. W. Brooke, Roseland .....	9.38	.87	2.45	12.70	10.25	1.88	2.28	2.01
2617	Dolhonde & Co., Independence .....	9.38	.87	2.45	12.70	10.25	1.88	2.28	2.01
2941	Mrs. B. Stern, Amite City .....	8.48	1.64	2.17	12.65	10.48	1.85	2.24	1.93
2942	Dolhonde & Co., Independence .....	8.48	1.64	2.17	12.65	10.48	1.85	2.24	1.93
2948	B. M. Morrison, Hammond .....	8.23	1.75	2.30	12.28	9.98	1.76	2.12	1.93
2970	Dolhonde & Co., Independence .....	8.94	1.58	2.24	12.76	10.52	1.91	2.32	2.17
2971	G. W. Nesom, Tickfaw .....	8.94	1.58	2.24	12.76	10.52	1.91	2.32	2.17
Jackson Fertilizer Co., Jackson, Miss. ROYAL C. BRAND.									
	<i>Guarantee</i> .....	6.00	1.60	1.00	8.60	7.60	1.55	....	1.80
10	Simon Grechman, Independence .....	5.55	4.22	1.09	10.86	9.77	1.68	2.04	1.90
32	E. D. Reichert & Co., Roseland .....	6.35	3.18	.77	10.30	9.53	1.79	2.17	1.92
35	L. R. Baham, Independence .....	6.72	3.33	.89	10.94	10.05	1.71	2.07	2.30

36	L. D. Kemp, Independence	6.72	3.33	.89	10.94	10.05	1.71	2.07	2.30
46	Salvado Levatino, Independence	6.42	3.18	1.25	10.85	9.60	1.83	2.22	2.54
47	Santo Delio, Independence	6.42	3.18	1.25	10.85	9.60	1.83	2.22	2.54
48	Vincino Linardo, Independence	6.42	3.18	1.25	10.85	9.60	1.83	2.22	2.54
160	D. H. Sanders & Son, Amite City	7.62	2.91	1.17	11.70	10.53	1.78	2.16	2.39
161	Simon Grechman, Independence	7.62	2.91	1.17	11.70	10.53	1.78	2.16	2.39
162	D. H. Sanders, Amite City	7.62	2.91	1.17	11.70	10.53	1.78	2.16	2.39
163	Dolhonde & Co., Independence	7.62	2.91	1.17	11.70	10.53	1.78	2.16	2.39
164	E. R. Hoover & Son, Independence	7.62	2.91	1.17	11.70	10.53	1.78	2.16	2.39
165	E. R. Hoover & Son, Independence	7.62	2.91	1.17	11.70	10.53	1.78	2.16	2.39
235	I. H. Wands, Arcola	7.17	3.12	1.03	11.32	10.29	1.75	2.12	2.34
236	D. H. Sanders, Amite City	7.17	3.12	1.03	11.32	10.29	1.75	2.12	2.34
237	S. H. Carpenter, Independence	7.17	3.12	1.03	11.32	10.29	1.75	2.12	2.34
238	E. R. Hoover & Son, Independence	7.17	3.12	1.03	11.32	10.29	1.75	2.12	2.34
239	E. D. Reichert & Co., Roseland	7.17	3.12	1.03	11.32	10.29	1.75	2.12	2.34
303	F. C. Weist, Amite City	6.79	3.15	1.14	11.08	9.94	1.79	2.18	2.44
421	D. H. Sanders, Amite City	7.70	3.03	1.16	11.89	10.73	1.78	2.16	2.41
422	E. D. Reichert & Co., Roseland	7.70	3.03	1.16	11.89	10.73	1.78	2.16	2.41
423	I. H. Wands, Arcola	7.70	3.03	1.16	11.89	10.73	1.78	2.16	2.41
424	Lampton Mercantile Co., Magnolia, Miss	7.70	3.03	1.16	11.89	10.73	1.78	2.16	2.41
610	E. L. Watson, Homer	9.00	1.25	3.16	13.41	10.25	1.87	2.28	2.07
844	Bridges, West & Co., Norwood	7.90	2.20	2.15	12.25	10.10	1.83	2.22	2.25
845	Lampton Mercantile Co., Magnolia, Miss.	7.90	2.20	2.15	12.25	10.10	1.83	2.22	2.25
846	Lampton Mercantile Co., Magnolia Miss.	7.90	2.20	2.15	12.25	10.10	1.83	2.22	2.25
847	E. D. Reichert & Co., Roseland	7.90	2.20	2.15	12.25	10.10	1.83	2.22	2.25
940	E. D. Reichert & Co., Roseland	7.80	2.27	1.65	11.72	10.07	1.80	2.18	2.33
990	D. H. Sanders, Amite City	7.80	2.62	1.65	12.07	10.42	1.81	2.19	2.33
1233	Bridges, West & Co., Norwood	7.85	2.41	1.90	12.16	10.26	1.82	2.20	2.29

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..				
Jackson Fertilizer Co., Jackson, Miss. ROYAL C. BRAND—Continued.										
1234	B. R. Carney, Slaughter .....	7.85	2.41	1.90	12.16	10.26	1.82	2.20	2.29	
1235	E. L. Newsham. St. Francisville .....	7.85	2.41	1.90	12.16	10.26	1.82	2.20	2.29	
1236	Bridges, West & Co., Norwood .....	7.85	2.41	1.90	12.16	10.26	1.82	2.20	2.29	
1237	R. Daniels, Star Hill .....	7.85	2.41	1.90	12.16	10.26	1.82	2.20	2.29	
1238	Armheim & Blum. Zachary .....	7.85	2.41	1.90	12.16	10.26	1.82	2.20	2.29	
1239	Lampton Mercantile Co., Magnolia, Miss.....	7.85	2.41	1.90	12.16	10.26	1.82	2.20	2.29	
1653	B. G. McIntyre, Minden .....	9.50	2.00	1.90	13.40	11.50	1.70	2.06	1.92	
1654	J. M. Mixon, Cotton Valley .....	9.50	2.00	1.90	13.40	11.50	1.70	2.06	1.92	
1655	B. G. McIntyre, Minden .....	9.50	2.00	1.90	13.40	11.50	1.70	2.06	1.92	
1656	B. G. McIntyre, Minden .....	9.50	2.00	1.90	13.40	11.50	1.70	2.06	1.92	
1657	B. G. McIntyre, Minden .....	9.50	2.00	1.90	13.40	11.50	1.70	2.06	1.92	
1658	Bridges, West & Co., Norwood .....	9.50	2.00	1.90	13.40	11.50	1.70	2.06	1.92	
1682	Ronaldson & Puckett, Baton Rouge .....	8.65	2.31	1.77	12.73	10.96	1.75	2.12	2.13	
1683	Armheim & Blum, Zachary .....	8.65	2.31	1.77	12.73	10.96	1.75	2.12	2.13	
1684	E. L. Watson, Homer .....	8.65	2.31	1.77	12.73	10.96	1.75	2.12	2.13	
1685	B. R. Carney, Slaughter .....	8.65	2.31	1.77	12.73	10.96	1.75	2.12	2.13	
1686	I. N. Varnado, Osyka, Miss.....	8.65	2.31	1.77	12.73	10.96	1.75	2.12	2.13	
1687	I. N. Varnado, Osyka, Miss.....	8.65	2.31	1.77	12.73	10.96	1.75	2.12	2.13	
1688	Lampton Mercantile Co., Magnolia, Miss.....	8.65	2.31	1.77	12.73	10.96	1.75	2.12	2.13	



2307	B. G. McIntyre, Minden	9.42	2.26	1.82	13.50	11.68	1.53	1.86	1.82
2308	Bridges, West & Co., Norwood	9.42	2.26	1.82	13.50	11.68	1.53	1.86	1.82
2309	D. H. Sanders, Amite City	9.42	2.26	1.82	13.50	11.68	1.53	1.86	1.82
2310	D. H. Sanders, Amite City	9.42	2.26	1.82	13.50	11.68	1.53	1.86	1.82
2311	D. H. Sanders, Amite City	9.42	2.26	1.82	13.50	11.68	1.53	1.86	1.82
2312	D. H. Sanders, Amite City	9.42	2.26	1.82	13.50	11.68	1.53	1.86	1.82
2666	E. R. Hoover & Co., Independence	8.75	2.53	1.82	13.10	11.28	1.77	2.15	1.97
2963	D. H. Sanders, Amite City	8.38	2.23	1.81	12.42	10.61	1.77	2.15	2.18
2964	E. R. Hoover & Son, Independence	8.38	2.23	1.81	12.42	10.61	1.77	2.15	2.18
2965	F. E. Neelis & Co., Hammond	7.82	2.51	1.79	12.12	10.33	1.82	2.20	2.31
<b>LAMPTON'S RAW BONE SUPERPHOSPHATE.</b>									
	<i>Guarantee</i>	7.50	2.00	1.00	10.50	9.50	1.65	2.00	1.80
670	Lampton Mercantile Co., Magnolia, Miss.	8.00	4.70	2.30	15.00	12.70	2.26	2.75	1.80
671	Lampton Mercantile Co., Magnolia, Miss.	8.00	4.70	2.30	15.00	12.70	2.26	2.75	1.80
1282	Lampton Mercantile Co., Magnolia, Miss.	8.00	3.13	3.87	15.00	11.13	1.85	2.25	1.60
1283	Lampton Mercantile Co., Magnolia, Miss.	8.00	3.13	3.87	15.00	11.13	1.85	2.25	1.60
1284	Lampton Mercantile Co., Magnolia, Miss.	8.00	3.13	3.87	15.00	11.13	1.85	2.25	1.60
1715	Lampton Mercantile Co., Magnolia, Miss.	8.43	2.78	3.91	15.12	11.21	1.86	2.26	1.91
1716	Lampton Mercantile Co., Magnolia, Miss.	8.43	2.78	3.91	15.12	11.21	1.86	2.26	1.91
<b>GULF STATES GUANO.</b>									
	<i>Guarantee</i>	7.50	2.00	1.00	.....	.....	1.65	....	1.80
3000	F. E. Neelis & Co., Hammond	9.12	1.61	2.01	12.74	10.73	1.81	2.20	1.70

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..				
RAW BONE SUPERPHOSPHATE.										
	<i>Guarantee</i> .....	7.50	2.00	1.00	10.50	9.50	1.65	2.00	1.80	
1321	Bridges, West & Co., Norwood .....	8.85	2.44	3.96	15.25	11.29	1.86	2.26	2.22	
CHICAGO RAW BONE SUPERPHOS- PHATE.										
	<i>Guarantee</i> .....	7.50	2.00	1.00	10.50	9.50	1.65	2.00	1.80	
1645	Bridges, West & Co., Norwood .....	8.37	2.50	3.63	14.50	10.87	1.83	2.21	1.80	
1681	Ronaldson & Puckett, Baton Rouge .....	8.61	2.47	3.80	14.88	11.08	1.85	2.24	2.01	
1722	B. R. Carney, Slaughter .....	8.40	2.64	3.77	14.81	11.04	1.85	2.24	1.86	
2361	B. R. Carney, Slaughter .....	8.00	3.95	3.75	15.70	11.95	1.88	2.27	1.66	
2362	Bridges, West & Co., Norwood .....	8.00	3.95	3.75	15.70	11.95	1.88	2.27	1.66	
2363	D. H. Sanders, Amite City .....	8.00	3.95	3.75	15.70	11.95	1.88	2.27	1.66	
2981	F. E. Neelis & Co., Hammond .....	8.38	2.57	3.70	14.65	10.95	1.84	2.23	1.83	
ROYAL DISSOLVED BONE.										
	<i>Guarantee</i> .....	7.50	2.00	1.00	10.50	9.50	1.65	2.00	1.80	
928	Bridges, West & Co., Norwood .....	13.59	.01	1.30	14.90	13.60	1.85	2.25	1.78	

## FRUIT AND VEGETABLE.

<i>Guarantee</i> .....	3.00	3.00	1.00	7.00	6.00	3.00	....	4.00
142 E. D. Reichert & Co., Roseland .....	3.68	2.95	.45	7.08	6.63	3.22	3.91	3.58
233 D. H. Sanders & Son, Amite City .....	3.84	2.50	.48	6.82	6.34	3.21	3.89	4.35
234 F. E. Neelis & Co., Hammond .....	3.84	2.50	.48	6.82	6.34	3.21	3.89	4.35
240 D. H. Sanders, Amite City .....	3.76	2.73	.46	6.95	6.49	3.22	3.91	3.97
241 I. H. Wands, Arcola .....	3.76	2.73	.46	6.95	6.49	3.22	3.91	3.97
242 E. D. Reichert & Co., Roseland .....	3.76	2.73	.46	6.95	6.49	3.22	3.91	3.97
655 E. D. Reichert & Co., Roseland .....	6.43	1.20	2.87	10.50	7.63	2.78	3.38	3.71
656 D. H. Sanders, Amite City .....	6.43	1.20	2.87	10.50	7.63	2.78	3.38	3.71
657 E. D. Reichert & Co., Roseland .....	6.43	1.20	2.87	10.50	7.63	2.78	3.38	3.71
1277 E. D. Reichert & Co., Roseland .....	5.87	.88	1.50	8.25	6.75	2.39	2.90	4.16
1278 E. D. Reichert & Co., Roseland .....	5.87	.88	1.50	8.25	6.75	2.39	2.90	4.16
1279 E. D. Reichert & Co., Roseland .....	5.40	1.66	.91	7.97	7.06	3.30	4.00	4.70
652 I. H. Wands, Arcola .....	7.25	1.47	3.53	12.25	8.72	2.38	2.89	3.12
653 E. D. Reichert & Co., Roseland .....	7.25	1.47	3.53	12.25	8.72	2.38	2.89	3.12
654 E. D. Reichert & Co., Roseland .....	7.25	1.47	3.53	12.25	8.72	2.38	2.89	3.12
2983 F. E. Neelis & Co., Hammond .....	5.63	1.27	1.20	8.10	6.90	3.26	3.95	4.43
Meridian Fertilizer Factory, Meridian, Miss. HOME MIXTURE.								
<i>Guarantee</i> .....	8.00	2.00	1.00	11.00	10.00	1.65	2.00	2.00
665 H. L. Mayer, Clinton .....	7.85	2.35	1.43	11.63	10.20	1.93	2.34	2.18
924 A. L. Atkins & Son, Arcadia .....	7.75	2.65	1.40	11.80	10.40	1.60	1.94	2.26
925 J. A. Madden & Sons, Homer .....	7.75	2.65	1.40	11.80	10.40	1.60	1.94	2.26
926 J. L. Baker, Mt. Lebanon .....	7.75	2.65	1.40	11.80	10.40	1.60	1.94	2.26



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash. ....	
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..				
Meridian Fertilizer Factory, Meridian, Miss. HOME MIXTURE—Continued.										
11185	H. L. Mayer, Clinton .....	7.95	2.52	1.00	11.47	10.47	1.97	2.39	2.52	
11186	Mrs. B. Stern, Amite City .....	7.95	2.52	1.00	11.47	10.47	1.97	2.39	2.52	
1209	Dillon & Martin, Athens .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1210	J. L. Baker, Mt. Lebanon .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1211	W. R. Mitchell, W. Monroe .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1212	J. D. Green, Bernice .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1213	W. R. Manning, Haynesville .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1214	J. D. Green, Bernice .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1215	W. C. McDonald, Jonesboro .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1216	Stanley & Gore, Wilson .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1217	H. L. Mayer, Clinton .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1218	Mrs. B. Stern, Amite City .....	7.90	2.44	1.22	11.56	10.34	1.95	2.37	2.35	
1291	J. J. Stovall, Dodson .....	7.85	2.28	1.32	11.45	10.13	1.91	2.32	2.54	
1292	H. A. Vize, Taylor .....	7.85	2.28	1.32	11.45	10.13	1.91	2.32	2.54	
1293	Davis & Smith, Dubberly .....	7.85	2.28	1.32	11.45	10.13	1.91	2.32	2.51	
1342	J. C. Madden & Sons, Homer .....	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53	
1343	W. R. Mitchell, W. Monroe .....	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53	
1344	A. L. Atkins, Arcadia .....	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53	
1345	G. W. Sutton, Bear Creek .....	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53	

1346	H. A. Vize, Taylor	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53
1347	Lucky Bros., Bienville	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53
1348	Dillon & Martin, Athens	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53
1349	J. D. Green, Bernice	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53
1350	A. L. Atkins, Arcadia	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53
1351	R. B. Trussell & Co., Simsboro	7.90	2.40	1.16	11.46	10.30	1.94	2.36	2.53
1692	J. L. Baker, Mt. Lebanon	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1693	R. B. Trussell, Simsboro	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1694	J. F. Scott, Dubberly	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1695	Mrs. S. F. Pearce, Hafin	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1696	J. E. Hewitt, Mansfield	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1697	T. J. Lawhon, Lawhon	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1698	A. L. Atkins & Sons, Arcadia	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1699	Lucky Bros., Bienville	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1700	A. L. Atkins & Sons, Arcadia	7.90	2.42	1.19	11.51	10.32	1.95	2.37	2.44
1973	A. L. Atkins & Sons, Arcadia	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1974	Lewis & Noff, Ruston	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1975	E. Schuler, Keachie	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1976	Lewis & Co., Ruston	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1977	J. D. Green, Bernice	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1978	W. C. McDonald, Jonesboro	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1979	J. W. Elston, Haughton	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1980	E. Schuler, Keachie	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1981	J. W. Elston, Haughton	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1982	Thos. Crichton, Minden	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1983	J. D. Green, Bernice	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1984	Lucky Bros., Bienville	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49
1985	Lewis & Co., Ruston	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available...				
Meridian Fertilizer Factory, Meridian, Miss. HOME MIXTURE—Continued.										
1986	A. L. Atkins & Son., Arcadia .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1987	J. F. Felton, Yellow Pine .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1988	J. D. Green, Bernice .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1989	Thos. Crichton, Minden .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1990	R. B. Trussell & Co., Simsboro .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1991	J. D. Green, Bernice .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1992	A. L. Atkins & Sons, Arcadia .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1993	R. B. Trussell & Co., Simsboro .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1994	R. B. Trussell & Co., Simsboro .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1995	W. R. Manning, Haynesville .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1996	Lewis & Co., Ruston .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1997	W. R. Mitchell, W. Monroe .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1998	J. D. Green, Bernice .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
1999	M. R. Joiner, Ashland .....	7.88	2.35	1.25	11.48	10.23	1.93	2.35	2.49	
2313	J. E. Hewitt & Co., Mansfield .....	8.60	2.39	1.61	12.60	10.99	1.75	2.12	2.54	
2354	Williams & Co., Duboch .....	8.52	2.61	1.85	12.98	11.13	1.85	2.24	2.10	
2355	J. E. Hewitt, Mansfield .....	8.52	2.61	1.85	12.98	11.13	1.85	2.24	2.10	
2356	H. L. Mayer, Clinton .....	8.52	2.61	1.85	12.98	11.13	1.85	2.24	2.10	
2357	L. T. Holmes, Longstreet .....	8.52	2.61	1.85	12.98	11.13	1.85	2.24	2.10	



2686	W. R. Manning, Haynesville	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2687	Thos. Crichton, Minden	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2688	J. D. Green, Bernice	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2689	J. C. Madden & Sons, Homer	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2690	J. D. Green, Bernice	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2691	M. R. Joiner, Ashland	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2692	Thos. Crichton, Minden	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2693	J. E. Hewitt, Mansfield	8.20	2.48	1.55	12.23	10.68	1.89	2.29	2.30
2723	W. R. Manning, Haynesville	9.30	1.18	2.87	13.35	10.48	1.70	2.06	1.53
2724	J. C. Madden & Co., Homer	9.30	1.18	2.87	13.35	10.48	1.70	2.06	1.53
2725	Lewis & Co., Ruston	9.30	1.18	2.87	13.35	10.48	1.70	2.06	1.53
2726	J. C. Madden & Sons, Homer	9.30	1.18	2.87	13.35	10.48	1.70	2.06	1.53
2727	J. L. Baker & Co., Mt. Lebanon	9.30	1.18	2.87	13.35	10.48	1.70	2.06	1.53
2728	J. L. Baker & Co., Mt. Lebanon	9.30	1.18	2.87	13.35	10.48	1.70	2.06	1.53
2729	W. R. Manning, Haynesville	9.30	1.18	2.87	13.35	10.48	1.70	2.06	1.53
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Meridian Fertilizer Factory, Meridian, Miss.									
BLOOD AND BONE.									
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<i>Guarantee</i>									
1189	Mrs. B. Stern, Amite City	8.00	2.00	1.00	11.00	10.00	1.65	2.00	2.00
1267	Mrs. B. Stern, Amite City	7.50	3.43	.92	11.85	10.93	2.96	3.67	2.18
2286	L. T. Holmes, Longstreet	8.95	1.40	2.65	13.00	10.35	2.10	2.55	2.04
2287	J. W. Elston, Haughton	9.55	2.69	1.51	13.75	12.24	1.70	2.06	2.44
1325	F. Currie, Clinton	9.55	2.69	1.51	13.75	12.24	1.70	2.06	2.44
		8.17	2.65	1.68	12.50	10.82	1.75	2.12	3.32

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.						Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..					
SOUTHERN SOLUBLE GUANO.											
	<i>Guarantee</i> .....	.....	.....	.....	.....	10.00	1.65	2.00	2.00	2.00	
1280	E. Currie, Clinton .....	7.70	2.29	2.51	12.50	9.99	1.86	2.26	2.46	2.46	
1281	W. A. Moody, Ethel .....	7.70	2.29	2.51	12.50	9.99	1.86	2.26	2.46	2.46	
1827	Ed. Currie, Clinton .....	8.30	1.35	1.60	11.25	9.65	2.00	2.42	2.04	2.04	
VEGETABLE GROWER.											
	<i>Guarantee</i> .....	5.00	1.00	1.00	7.00	6.00	2.50	.....	.....	6.00	
661	J. C. Madden & Sons, Homer .....	7.40	2.53	1.25	11.18	9.93	2.57	3.12	4.12	4.12	
1410	Mrs. B. Stern, Amite City .....	8.62	2.10	1.55	12.27	10.72	2.40	2.93	3.12	3.12	
1411	J. D. Green, Bernice .....	8.62	2.10	1.55	12.27	10.72	2.40	2.93	3.12	3.12	
1412	W. R. Manning, Haynesville .....	8.62	2.10	1.55	12.27	10.72	2.40	2.93	3.12	3.12	
2137	J. L. Baker & Co., Mt. Lebanon .....	7.32	2.03	2.30	11.65	9.35	2.36	2.86	6.07	6.07	
Minden Cotton Oil & Ice Co., Ltd., Minden, La. NORTH LOUISIANA STANDARD.											
	<i>Guarantee</i> .....	8.00	2.00	1.00	11.00	10.00	1.75	.....	.....	.50	
1620	Emmett Allen, Srepta .....	8.00	5.53	1.65	15.18	13.53	2.13	2.59	.50	.50	
1924	T. J. Lawhon & Co., Lawhon .....	8.15	4.58	1.52	14.25	12.73	2.63	3.19	.57	.57	
1925	H. J. Helfin, Helfin .....	8.15	4.58	1.52	14.25	12.73	2.63	3.19	.57	.57	

1926	W. E. Allen, Serepta .....	8.15	4.58	1.52	14.25	12.73	2.63	3.19	.57
1927	T. C. Connell, Dubberly .....	8.15	4.58	1.52	14.25	12.73	2.63	3.19	.57
1928	Shelby Ventress, Armstead .....	8.15	4.58	1.52	14.25	12.73	2.63	3.19	.57
1929	Floyd Culberson, Minden .....	8.15	4.58	1.52	14.25	12.73	2.63	3.19	.57
2014	S. Ventress, Ringgold .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2015	W. J. Hortman, Hortman .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2016	J. J. Vanlandingham, Minden .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2017	F. H. Drake, Minden .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2018	C. R. Davis, Cotton Valley .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2019	T. C. Connell, Minden .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2020	McDonald & Allen, Minden .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2021	S. Ventress, Ringgold .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2022	H. D. Allen, Minden .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
2023	F. C. Harvell, Minden .....	8.08	5.05	1.59	14.72	13.13	2.38	2.89	.54
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New Orleans Acid and Fertilizer Co., Gretna, La.									
GOLDSMITH'S IMPROVED MIXTURE.									
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<i>Guarantee</i> .....		7.00	2.00	2.00	11.00	9.00	1.65	....	1.00
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269	Mrs. B. Stern, Amite City .....	4.99	3.23	1.67	9.89	8.22	2.31	2.80	1.78
355	Shaw & Melder, Forest Hill .....	9.35	3.10	2.35	14.80	12.45	1.81	2.20	.92
428	E. W. Ott, Mt. Herman .....	7.18	3.17	2.01	12.36	10.35	2.05	2.49	1.35
429	Allen & Browning, Haynesville .....	7.18	3.17	2.01	12.36	10.35	2.05	2.49	1.35
430	P. Lowenberg, Homer .....	7.18	3.17	2.01	12.36	10.35	2.05	2.49	1.35
431	L. L. Frye & Co., Hope .....	7.18	3.17	2.01	12.36	10.35	2.05	2.49	1.35
432	Mrs. B. Stern, Amite City .....	7.18	3.17	2.01	12.36	10.35	2.05	2.49	1.35
433	I. O. Windfreer, Leesville .....	7.18	3.17	2.01	12.36	10.35	2.05	2.49	1.35
434	J. S. Roberts, DeRidder .....	7.18	3.17	2.01	12.36	10.35	2.05	2.49	1.35



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash .....		
		Water Sol- uble .....	Reverted. ...	Insoluble. ...	Total. ....	Available ..					
New Orleans Acid and Fertilizer Co., Gretna, La. GOLLSMITH'S IMPROVED MIXTURE—Continued.											
967	J. M. Leach, Florien .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
968	Wm. Atkinson & Bacot Co., Osyka, Miss.....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
969	Howerton & Lawson, Forest Hill .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
970	Shaw & Melder, Forest Hill .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
971	J. W. Brilt, Glenmora .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
972	G. G. Leach & Miller, Hornbeck .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
973	Julius Freyhan & Co., Bayou Sara .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
974	L. C. Page, Ringgold .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
975	Cook, Ponder & Williams, Oakdale .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
976	Orr Bros., Glenmora .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
977	E. W. Ott, Mt. Herman .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
978	W. B. Cleveland, Many .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
979	L. L. Frye & Co., Hope .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
980	Pace, Gandy & Pace, Athens .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
981	P. Lowenberg, Homer .....	6.09	3.20	1.84	11.13	9.29	2.18	2.65	1.52		
1195	P. H. Ford, Ouachita .....	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22		
1196	D. W. Pipes, Clinton .....	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22		
1197	J. S. Roberts, DeRidder .....	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22		
1198	C. E. Snell, Mt. Herman .....	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22		

1199	S. G. Sample, Mansfield	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22
1200	L. T. Fortinberry, Smithberg, Miss.	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22
1201	Shaw & Melder, Forest Hill	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22
1202	Wm. Atkinson & Bacot Co., Osyka, Miss.	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22
1203	Orr Bros., Glenmora	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22
1204	E. W. Ott, Mt. Herman	7.72	3.15	2.09	12.96	10.87	2.00	2.43	1.22
1288	Julius Freyhan & Co., Bayou Sara	8.70	2.53	3.47	14.70	11.23	1.51	1.83	1.76
1289	D. S. Dean, Geneva, Texas	8.70	2.53	3.47	14.70	11.23	1.51	1.83	1.76
1608	I. O. Winfree & Son, Leesville	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1609	L. L. Frye & Co., Hope	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1610	J. S. Roberts, DeRidder	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1611	S. Guy Sample, Mansfield	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1612	Gorison-Alphin Hdw. Co., El Dorado, Ark.	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1613	Gorison-Alphin Hdw. Co., El Dorado, Ark.	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1614	E. D. Reichert & Co., Roseland	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1615	Wm. Atkinson & Bacot Co., Osyka, Miss.	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1616	Orr Bros., Glenmora	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1617	E. W. Ott, Mt. Herman	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1618	Paul W. Daniels, Welsh	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
1619	R. W. Caroway, Logansport	9.05	2.33	4.25	15.63	11.38	1.65	2.00	1.19
2065	Paul W. Daniels, Welsh	8.39	2.74	3.17	14.30	11.13	1.83	2.22	1.20
2066	A. D. McFarlain, Jennings	8.39	2.74	3.17	14.30	11.13	1.83	2.22	1.20
2067	H. H. Kennedy, Pleasant Hill	8.39	2.74	3.17	14.30	11.13	1.83	2.22	1.20
2068	E. W. Ott, Mt. Herman	8.39	2.74	3.17	14.30	11.13	1.83	2.22	1.20
2069	E. W. Ott, Mt. Herman	8.39	2.74	3.17	14.30	11.13	1.83	2.22	1.20
2070	Rehorst & Abels, Ponchatoula	8.39	2.74	3.17	14.30	11.13	1.83	2.22	1.20
2071	P. Lowenberg, Homer	8.39	2.74	3.17	14.30	11.13	1.83	2.22	1.20
2184	Roberson & Kennedy, Marthaville	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available ..			
2185	New Orleans Acid and Fertilizer Co., Gretna, La.	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21
2186	GOLDSMITH'S IMPROVED MIXTURE—Continued.	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21
2187	H. H. Kennedy, Pleasant Hill .....	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21
2188	E. W. Ott, Mt. Herman .....	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21
2189	A. D. McFarlain, Jennings .....	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21
2190	Paul W. Daniels, Welsh .....	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21
2191	E. W. Ott, Mt. Herman .....	8.50	2.05	2.75	13.30	10.55	2.08	2.52	1.21
2192	Meeker Planting Co., Meeker .....	8.52	2.38	3.35	14.25	10.90	2.34	2.84	1.90
2955	Paul W. Daniels, Welsh .....	6.36	3.19	1.88	11.43	9.55	2.16	2.62	1.50
2956	Mrs. B. Stern, Amite City .....	6.36	3.19	1.88	11.43	9.55	2.16	2.62	1.50
	New Orleans Acid and Fertilizer Co., Gretna, La.								
	GOLD DUST.	7.00	2.00	2.00	11.00	9.00	1.65	....	1.00
	Guarantee .....								
271	Bickham, Magee & Co., Covington .....	6.46	2.90	2.80	12.16	9.36	1.71	2.08	1.19
272	Babington Bros., Franklinton .....	6.46	2.90	2.80	12.16	9.36	1.71	2.08	1.19
273	Babington & Co., Covington .....	6.46	2.90	2.80	12.16	9.36	1.71	2.08	1.19
338	Abney & Mayer, Franklinton .....	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
339	Bickham & Son, Warnerton .....	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04



340	Jno. Peters, Sr., Clinton	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
341	J. S. Norwood, Norwood	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
342	C. A. Jenkins, Warm City	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
343	Powell Bros. & Sanders, Leesville	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
344	Powell Bros. & Sanders, Leesville	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
345	Mervine Kahn, Rayne	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
346	Roberts & Gill, Glenmora	9.00	2.74	3.66	15.40	11.74	1.64	1.99	1.04
435	I. D. Norwood, Norwood	7.73	2.82	3.23	13.78	10.55	1.68	2.04	1.12
436	W. M. Poland, Bienville	7.73	2.82	3.23	13.78	10.55	1.68	2.04	1.12
437	McIsimis, Blume & Co., Castor	7.73	2.82	3.23	13.78	10.55	1.68	2.04	1.12
596	M. L. Cohn, Amite City	8.82	2.27	2.97	14.06	11.09	1.58	1.92	1.22
597	Ronaldson & Puckett Co., Ltd., Baton Rouge	8.82	2.27	2.97	14.06	11.09	1.58	1.92	1.22
598	Fain & Krieland, Jennings	8.82	2.27	2.97	14.06	11.09	1.58	1.92	1.22
599	J. J. Capdeville, Baton Rouge	8.82	2.27	2.97	14.06	11.09	1.58	1.92	1.22
600	John Peters, Sr., Clinton	8.82	2.27	2.97	14.06	11.09	1.58	1.92	1.22
601	W. R. McKowen & Co., Jackson	8.82	2.27	2.97	14.06	11.09	1.58	1.92	1.22
602	Reeves & Co., Hope	8.82	2.27	2.97	14.06	11.09	1.58	1.92	1.22
1034	Jno. W. Griffin, Clinton	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1035	E. W. Tedlie, St. Maurice	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1036	W. A. Head, Lapine	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1037	Jake Greeve, care Loche Dry Goods Co., Monroe	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1038	J. W. Sperlock, Mosely's Bluff	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1039	E. A. Williams, Mosely's Bluff	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1040	L. P. Alexander, cr. Loche Dry Goods Co., Monroe	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1041	W. S. Tidwell, care Loche Dry Goods Co., Monroe	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1042	Jno. Risen, care Loche Dry Goods Co., Monroe	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1043	S. J. Wall, care Loche Dry Goods Co., Monroe	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42
1044	Babington Bros., Franklinton	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....		
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..					
New Orleans Acid and Fertilizer Co., Gretna, La. GOLD DUST—Continued.											
1045	Babington Bros., Franklinton .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1046	X. D. Hays, Kent's Store .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1047	C. E. Snell, Mt. Herman .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1048	J. R. Brannon, Lindsay .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1049	Roberts & Gill, Glenmora .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1050	Ronaldson & Puckett Co., Baton Rouge .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1051	Stanley & Gore, Wilson .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1052	E. Butterworth, Jackson .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1053	W. M. Poland, Bienville .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1054	Wm. Atkinson & Bacot Co., Osyka, Miss.....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1055	S. Israel, Clinton .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1056	Reeves & Co., Hope .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1240	W. T. Baker & Co., Gilsland .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1241	Bickham, Magee & Co., Covington .....	8.75	1.98	3.17	13.90	10.73	2.15	2.61	1.42		
1242	I. A. Ross, Bastrop .....	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32		
1243	J. E. Hewitt & Co., Ltd., Mansfield .....	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32		
1244	B. F. Appleby, Slaughter .....	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32		
1245	Leach & Miller, Hornbeck .....	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32		
1246	W. R. McKowen, Jackson .....	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32		

1247	B. P. Brady, Elmer	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1248	W. R. McKöwen & Co., Jackson	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1249	Wm. Stewart, Clinton	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1250	Edward Cerwin, Clinton	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1251	McInnes, Blume & Co., Castor	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1252	L. C. Page, Ringgold	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1253	I. D. Norwood, Norwood	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1254	Stanley & Gore, Wilson	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1255	Pace, Gandy & Pace, Athens	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1256	Moore & Morris, Bell's Store	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1257	D. Maignand, Mementau	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1258	C. W. Hammer, Gilsland	8.79	2.22	3.07	14.08	11.01	1.87	2.26	1.32
1259	S. Israel, Clinton	8.46	2.52	3.15	14.13	10.98	1.78	2.16	1.22
1260	Lorche Dry Goods Co., W. Monroe	8.46	2.52	3.15	14.13	10.98	1.78	2.16	1.22
1261	P. Franard, Monroe	8.46	2.52	3.15	14.13	10.98	1.78	2.16	1.22
1262	A. P. Johnson	8.46	2.52	3.15	14.13	10.98	1.78	2.16	1.22
1263	J. D. Baughman, Farmerville	8.46	2.52	3.15	14.13	10.98	1.78	2.16	1.22
1264	Ferguson Bros	8.46	2.52	3.15	14.13	10.98	1.78	2.16	1.22
1265	J. A. Peck, Ouachita	8.46	2.52	3.15	14.13	10.98	1.78	2.16	1.22
1547	Stanley & Gore, Wilson	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1548	Pool & Wallace, Verda	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1549	C. W. Boyce, Pineville	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1550	I. D. Norwood, Norwood	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1551	Moore & Morris, Bell's Store	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1552	Stanley & Gore, Wilson	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1553	I. D. Norwood, Norwood	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1554	Percy Bros., St. Francisville	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1555	L. E. Bentley, Bastrop	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
	New Orleans Acid and Fertilizer Co., Gretna, La. GOLD DUST—Continued.,								
1556	W. W. Connerly, Orange .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1557	Powell Bros. & Sanders, Leesville .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1558	R. B. Blanks, Columbia .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1559	W. A. Head, cr. Lorche Dry Goods Co., W. Monroe...	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1560	Lorche Dry Goods Co., Monroe .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1561	Lorche Dry Goods Co., Monroe .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1562	Lorche Dry Goods Co., Monroe .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1563	Bickham, Magee & Co., Covington .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1564	Lemon & Brown, Ethel .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1565	J. M. Stigletts, care H. T. Cottam & Co., N. O. ....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1566	Stanley & Gore, Wilson .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1567	I. D. Norwood, Norwood .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1568	H. T. Cottam & Co., New Orleans .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1569	Red River Line, New Orleans .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
2099	S. W. Pipes, Calhoun .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2100	Mervine Kahn, Rayne .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2101	C. R. Ferrand, Columbia .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2102	R. M. Filholl, Logtown .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2103	B. F. Appleby, Slaughter .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31

2104	C. F. Ratcliff, Zachary .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2105	Ronaldson & Puckett Co., Baton Rouge .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2106	G. P. Allen, Bonita .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2107	Lorche Dry Goods Co., W. Monroe .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2108	Red River Line, New Orleans .....	8.70	2.23	3.12	14.05	10.93	1.91	2.31	1.31
2261	A. A. Bonvillain, Glencoe .....	7.17	3.79	3.29	14.25	10.96	2.21	2.68	1.45
2262	J. A. Peek, Ouachita City .....	7.17	3.79	3.29	14.25	10.96	2.21	2.68	1.45
2263	T. C. McKowen, Lindsay .....	7.17	3.79	3.29	14.25	10.96	2.21	2.68	1.45
2264	W. R. McKowen, Jackson .....	7.17	3.79	3.29	14.25	10.96	2.21	2.68	1.45
2265	Powell Bros. & Sanders Co., Leesville .....	7.17	3.79	3.29	14.25	10.96	2.21	2.68	1.45
2266	Ronaldson & Puckett Co., Ltd., Baton Rouge .....	7.17	3.79	3.29	14.25	10.96	2.21	2.68	1.45
2267	Ronaldson & Puckett Co., Ltd., Baton Rouge .....	7.17	3.79	3.29	14.25	10.96	2.21	2.68	1.45
2525	M. Powell & Co., Columbia .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2526	Stanley & Gore, Wilson .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2527	W. V. Nicholson, Lafayette .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2528	J. A. Peek, Ouachita City .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2529	Lemon & Brown, Ethel .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2530	W. A. Head, Sterlington .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2531	Lorche Dry Goods Co., W. Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2532	Lorche Dry Goods Co., W. Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2533	Lorche Dry Goods Co., W. Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2534	Lorche Dry Goods Co., W. Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2535	A. W. Myatt, Mvatt .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2536	Ventress Bros., Wilcox .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2537	I. D. Norwood, Norwood .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2538	C. C. Roark, Columbia .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2539	Ed. Wise & Co., Abbeville .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2540	Chas. F. Ratcliff, Zachary .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
New Orleans Acid and Fertilizer Co., Gretna, La. Gold Dust—Continued.									
2541	L. D. McLain, Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2542	L. D. McLain, Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2543	L. D. McLain, Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2544	L. D. McLain Monroe .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2545	Lemon & Brown, Ethel .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2546	R. R. Ross, Burnham's .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2547	W. A. Head, Pine Bluff .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2548	Chas. Gardner, Red Style Landing .....	7.88	3.02	3.22	14.12	10.90	2.08	2.53	1.38
2811	O. D. Billon, Bayou Goula .....	8.90	1.89	2.75	13.54	10.79	2.49	3.03	1.48
2812	Stanley & Gore, Wilson .....	8.90	1.89	2.75	13.54	10.79	2.49	3.03	1.48
2813	Ronaldson & Puckett Co., Baton Rouge .....	8.90	1.89	2.75	13.54	10.79	2.49	3.03	1.48
2814	Stanley & Gore, Wilson .....	8.90	1.89	2.75	13.54	10.79	2.49	3.03	1.48
2815	H. T. Cottam & Co., New Orleans .....	8.90	1.89	2.75	13.54	10.79	2.49	3.03	1.48
2855	L. D. McLain, Monroe .....	8.04	2.84	3.02	13.90	10.88	2.35	2.85	1.46
2856	L. D. McLain, Monroe .....	8.04	2.84	3.02	13.90	10.88	2.35	2.85	1.46
2857	Mrs. M. L. Bennett, Monroe .....	8.04	2.84	3.02	13.90	10.88	2.35	2.85	1.46
2858	L. D. McLain, Monroe .....	8.04	2.84	3.02	13.90	10.88	2.35	2.85	1.46
2859	L. D. McLain, Monroe .....	8.04	2.84	3.02	13.90	10.88	2.35	2.85	1.46
2860	L. D. McLain, Monroe .....	8.04	2.84	3.02	13.90	10.88	2.35	2.85	1.46



2868	Stanley & Gore, Wilson .....	8.37	2.54	3.07	13.98	10.91	2.13	2.59	1.39
2869	Steamer America, New Orleans .....	8.37	2.54	3.07	13.98	10.91	2.13	2.59	1.39
2870	L. D. McLain, Monroe .....	8.37	2.54	3.07	13.98	10.91	2.13	2.59	1.39
2871	Stanley & Gore, Wilson .....	8.37	2.54	3.07	13.98	10.91	2.13	2.59	1.39
2872	Ronaldson & Puckett Co., Baton Rouge .....	8.37	2.54	3.07	13.98	10.91	2.13	2.59	1.39
2873	Stanley & Gore, Wilson .....	8.37	2.54	3.07	13.98	10.91	2.13	2.59	1.39
2952	I. D. Norwood, Norwood .....	7.42	2.72	2.93	13.07	10.14	1.87	2.27	1.26
1570	Lorche Dry Goods Co., West Monroe .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1571	R. R. Ross, Burnham's .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1572	Lorche Dry Goods Co., West Monroe .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
1573	Lorche Dry Goods Co., West Monroe .....	8.60	2.25	3.16	14.01	10.85	1.96	2.38	1.31
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New Orleans Acid and Fertilizer Co., Gretna, La.									
BLOOD BONE AND POTASH.									
<i>Guarantee</i> .....									
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138	B. M. Morrison, Hammond .....	8.04	3.83	4.77	16.64	11.87	1.68	2.04	1.66
231	Mrs. W. G. Wilson, Independence .....	8.14	1.86	6.67	16.67	10.00	2.13	2.58	1.44
232	Bickham, Magee & Co., Covington .....	8.14	1.86	6.67	16.67	10.00	2.13	2.58	1.44
256	H. H. Smith, Covington .....	8.09	2.85	5.72	16.66	10.94	1.90	2.30	1.55
257	Bickham, Magee & Co., Covington .....	8.09	2.85	5.72	16.66	10.94	1.90	2.30	1.55
258	Jones & Pickett, Covington .....	8.09	2.85	5.72	16.66	10.94	1.90	2.30	1.55
259	Babington Bros., Ltd., Franklinton .....	8.09	2.85	5.72	16.66	10.94	1.90	2.30	1.55
260	Babington & Co., Covington .....	8.09	2.85	5.72	16.66	10.94	1.90	2.30	1.55
261	Bickham, Magee & Co., Covington .....	8.09	2.85	5.72	16.66	10.94	1.90	2.30	1.55
304	Bickham & Son, Warrerton .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
305	Jones & Pickett, Covington .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
306	I. D. Norwood, Norwood .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash .....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
	New Orleans Acid and Fertilizer Co., Gretna, La. BLOOD, BONE AND POTASH—Continued.								
307	C. A. Jenkins, Warner City .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
308	Powell Bros. & Sanders, Leesville .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
309	Ronaldson & Puckett Co., Ltd., Baton Rouge .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
310	Powell Bros. & Sanders, Leesville .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
311	Mervine Kahn, Rayne .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
312	Jones and Pickett, Covington .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
313	Bickham Bros., Franklinton .....	8.07	3.34	5.25	16.66	11.41	1.79	2.18	1.60
439	John Dykes, Independence .....	8.08	3.10	5.49	16.67	11.18	1.79	2.18	1.60
440	W. J. Penton, Independence .....	8.08	3.10	5.49	16.67	11.18	1.85	2.24	1.57
441	E. W. Ott, Mt. Herman .....	8.08	3.10	5.49	16.67	11.18	1.85	2.24	1.57
442	Allen & Browning, Haynesville .....	8.08	3.10	5.49	16.67	11.18	1.85	2.24	1.57
443	R. Lafleur & Co., Eunice .....	8.08	3.10	5.49	16.67	11.18	1.85	2.24	1.57
929	L. L. Frank & Co., Iowa .....	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
930	Stanley & Gore, Wilson .....	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
931	E. E. Butterworth, Jackson .....	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
932	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
933	Jones & Pickett, Covington .....	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
934	C. A. Connella, W. Monroe .....	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
935	Babington Bros., Ltd., Franklinton .....	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51

936	Babington Bros., Ltd., Franklinton	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
937	T. P. Richardson, Mt. Herman	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
938	C. E. Snell, Mt. Herman	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
939	Dr. H. L. Davis, Pleasant Hill	8.11	2.48	6.14	16.73	10.59	1.99	2.42	1.51
941	E. W. Ott, Mt. Herman	8.09	2.79	5.82	16.70	10.88	1.92	2.32	1.54
942	Bickham & Son, Warnerton	8.09	2.79	5.82	16.70	10.88	1.92	2.32	1.54
943	Ronaldson & Puckett Co., Baton Rouge	8.09	2.79	5.82	16.70	10.88	1.92	2.32	1.54
944	D. S. Dean, Geneva, Tex.	8.09	2.79	5.82	16.70	10.88	1.92	2.32	1.54
991	Powell Bros. & Sanders, Leesville	8.10	2.67	5.93	16.70	10.77	1.95	2.37	1.54
992	I. D. Norwood, Norwood	8.10	2.67	5.93	16.70	10.77	1.95	2.37	1.54
993	Stanley & Gore, Wilson	8.10	2.67	5.93	16.70	10.77	1.95	2.37	1.54
994	W. B. Cleveland, Many	8.10	2.67	5.93	16.70	10.77	1.95	2.37	1.54
995	Moore & Morris, Bell's Store	8.10	2.67	5.93	16.70	10.77	1.95	2.37	1.54
996	P. Lowenberg, Homer	8.10	2.67	5.93	16.70	10.77	1.95	2.37	1.54
1319	B. F. Appleby, Slaughter	7.40	2.60	4.90	14.90	10.00	2.00	2.43	1.54
1320	Bickham, Magee & Co., Covington	7.40	2.60	4.90	14.90	10.00	2.00	2.43	1.54
1514	Stanley & Gore, Wilson	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1515	I. D. Norwood, Norwood	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1516	Moore & Morris, Bell's Store	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1517	Stanley & Gore, Wilson	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1518	I. D. Norwood, Norwood	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1519	W. W. Connerly, Orange	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1520	Powell Bros. & Sanders, Leesville	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1521	Wm. Atkinson & Bacot Co., Osyka, Miss.	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1522	E. D. Reichert & Co., Roseland	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1523	Gorison-Alphin Hdw. Co., Eldorado, Ark.	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1524	Gorison-Alphin Hdw. Co., Eldorado, Ark.	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1525	Fain & Krielow, Jennings	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54



Station No....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
New Orleans Acid and Fertilizer Co., Gretna, La. BLOOD, BONE AND POTASH—Continued.									
1526	Lorche Dry Goods Co., Monroe .....	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1527	Lorche Dry Goods Co., Monroe .....	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1528	Bickham, Magee & Co., Covington .....	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1529	Jones & Pickett, Covington .....	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1530	Stanley & Gore, Wilson .....	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1531	Lorche Dry Goods Co., W. Monroe .....	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
1532	R. Lafleur Co., Ltd., Eunice .....	7.75	2.69	5.36	15.80	10.44	1.96	2.38	1.54
2081	S. W. Pipes, Calhoun .....	7.93	2.68	5.65	16.26	10.61	1.96	2.38	1.57
2082	Mervine Kahn, Rayne .....	7.93	2.68	5.65	16.26	10.61	1.96	2.38	1.57
2083	P. Lowenberg, Homer .....	7.93	2.68	5.65	16.26	10.61	1.96	2.38	1.57
2084	J. B. Merritt, Baker .....	7.93	2.68	5.65	16.26	10.61	1.96	2.38	1.57
2085	J. A. Sabatier, Iota .....	7.93	2.68	5.65	16.26	10.61	1.96	2.38	1.57
2086	F. W. Ott, Mt. Herman .....	7.93	2.68	5.65	16.26	10.61	1.96	2.38	1.57
2298	Lawrence Bros., Crowley .....	8.07	2.68	3.87	14.62	10.75	2.10	2.55	1.18
2549	Stanley & Gore, Wilson .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2550	Garig Wilson & Co., Baton Rouge .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2551	Lorche Dry Goods Co., W. Monroe .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2552	Ventress Bros., Wilcox .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2553	I. D. Norwood, Norwood .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36

2639	Lemon & Brown, Ethel .....	7.92	2.68	5.13	15.73	10.60	2.00	2.43	1.46
2640	Stanley & Gore, Wilson .....	7.92	2.68	5.13	15.73	10.60	2.00	2.43	1.46
2864	Jones & Pickett, Covington .....	7.93	2.68	5.39	16.00	10.61	1.98	2.40	1.52
2865	T. Buisson, Abita Springs .....	7.93	2.68	5.39	16.00	10.61	1.98	2.40	1.52
2866	Stanley & Gore, Wilson .....	7.93	2.68	5.39	16.00	10.61	1.98	2.40	1.52
2953	Mrs. B. Stern, Amite City .....	8.00	2.01	5.32	15.33	10.01	1.88	2.28	1.56
2554	L. L. Funk & Co., Iowa .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2555	S. Hymel & Son., St. James .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2556	Mrs. J. S. Webster, Lion .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2557	Mrs. J. S. Webster, Lion .....	7.91	2.69	4.61	15.21	10.60	2.03	2.47	1.36
2299	Powell Bros. & Sanders Co., Leesville .....	8.07	2.68	3.87	14.62	10.75	2.10	2.55	1.18
2300	Dr. H. L. Davis, Pleasant Hill .....	8.07	2.68	3.87	14.62	10.75	2.10	2.55	1.18
2301	R. Lafleur & Co., Eunice .....	8.07	2.68	3.87	14.62	10.75	2.10	2.55	1.18
2302	J. M. Booze, Roanoke .....	8.07	2.68	3.87	14.62	10.75	2.10	2.55	1.18
2303	Dr. H. L. Davis, Pleasant Hill .....	8.07	2.68	3.87	14.62	10.75	2.10	2.55	1.18

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
	New Orleans Acid and Fertilizer Co., Gretna, La. CREOLE.								
	<i>Guarantee</i> .....	6.00	2.00	2.00	10.00	8.00	2.50	....	1.00
359	Mervine Kahn, Rayne .....	7.95	3.81	2.32	14.08	11.76	2.77	3.36	.94
1302	J. Supplies Son's Planting Co., Bayou Goula .....	9.53	2.02	2.75	14.30	11.55	2.50	3.02	1.36
1303	G. G. Leach & Miller, Hornbeck .....	9.53	2.02	2.75	14.30	11.55	2.50	3.02	1.36
1304	Est. F. O. Himel, St. James .....	9.53	2.02	2.75	14.30	11.55	2.50	3.02	1.36
2097	E. D. Reichert & Co., Roseland .....	8.74	2.92	2.53	14.19	11.66	2.64	3.21	1.15
2098	J. Alfred Poche, St. James .....	8.74	2.92	2.53	14.19	11.66	2.64	3.21	1.15
2210	W. V. Nicholson, Lafayette .....	7.95	2.24	2.27	12.46	10.19	3.14	3.81	1.04
2211	R. C. Landry, Lafayette .....	7.95	2.24	2.27	12.46	10.19	3.14	3.81	1.04
2606	J. Supplies Son's Planting Co., Bayou Goula .....	8.17	1.50	2.45	12.12	9.67	3.28	3.97	1.37
2607	W. V. Nicholson, Lafayette .....	8.17	1.50	2.45	12.12	9.67	3.28	3.97	1.37
2608	S. Hymel & Son, St. James .....	8.17	1.50	2.45	12.12	9.67	3.28	3.97	1.37
2641	Webre Steid & Co., Ltd., New Orleans .....	8.45	2.21	2.49	13.05	10.66	3.02	3.66	1.26
2809	Pugh & Co., Colomb .....	8.70	2.25	2.52	13.47	10.95	3.07	3.72	....
2863	Est. F. O. Himel, Welcome .....	8.32	2.25	2.40	12.97	10.57	3.11	3.77	1.04



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
	New Orleans Acid and Fertilizer Co., Gretna, La. VEGETABLE GROWER.								
	<i>Guarantee</i> .....	6.00	1.25	2.00	9.25	7.25	2.80	....	2.60
136	B. M. Morrison, Hammond .....	7.97	2.00	2.46	12.43	9.97	3.12	3.79	3.22
137	Duffy & Abels, Ponchatoula .....	7.97	2.00	2.46	12.43	9.97	3.12	3.79	3.22
230	Mrs. W. G. Wilson, Independence .....	7.47	1.72	2.53	11.72	9.19	2.83	3.43	3.32
243	Rehorst & Abels, Ponchatoula .....	7.72	1.86	2.50	12.08	9.58	2.98	3.62	3.27
244	A. S. Paoline, Jesuits Bend .....	7.72	1.86	2.50	12.08	9.58	2.98	3.62	3.27
299	G. G. Leach & Miller, Hornbeck .....	7.50	1.74	2.83	12.07	9.24	3.09	3.75	2.92
300	A. L. Padini, Jesuits Bend .....	7.50	1.74	2.83	12.07	9.24	3.09	3.75	2.92
301	Parker & Riggs, Monroe .....	7.50	1.74	2.83	12.07	9.24	3.09	3.75	2.92
2341	Gustave Michel, care C. A. Jacquet, New Orleans....	8.83	2.53	3.04	14.40	11.36	2.65	3.22	2.06
2342	Rehorst & Abels, Ponchatoula .....	8.83	2.53	3.04	14.40	11.36	2.65	3.22	2.06
2343	Rehorst & Abels, Ponchatoula .....	8.83	2.53	3.04	14.40	11.36	2.65	3.22	2.06
2344	Rehorst & Abels, Ponchatoula .....	8.83	2.53	3.04	14.40	11.36	2.65	3.22	2.06

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
	New Orleans Acid and Fertilizer Co., Gretna, La. SPECIAL SUGAR CANE GROWER NO. 1. <i>Guarantee</i> .....	.....	.....	.....	9.00	7.00	5.00	.....	.....
347	Boudier & Bellessein, Patterson .....	7.45	2.86	1.65	11.96	10.31	5.30	6.42	.....
	New Orleans Acid and Fertilizer Co., Gretna, La. SPECIAL SUGAR CANE GROWER NO. 2. <i>Guarantee</i> .....	.....	.....	.....	.....	5.50	.....	9.00	.....
2915	Oneida Planting Co., Hester .....	5.85	1.80	1.47	9.12	7.65	9.26	11.24	.....
	New Orleans Acid and Fertilizer Co., Gretna, La. SPECIAL SUGAR CANE GROWER NO. 67. <i>Guarantee</i> .....	.....	.....	.....	9.00	7.00	.....	6.00	1.00
1328	A. H. Gay, Plaquemine .....	7.27	3.49	2.39	13.15	10.76	4.80	5.83	.50
1329	Bradish-Johnson Co., New Orleans .....	7.27	3.49	2.39	13.15	10.76	4.80	5.83	.50
1330	Iberville Planting Co., New Orleans .....	7.27	3.49	2.39	13.15	10.76	4.80	5.83	.50
1331	J. W. Martin, Houma .....	7.27	3.49	2.39	13.15	10.76	4.80	5.83	.50
1332	E. J. Gay Plant'g and Mfg. Co., Plaquemine .....	7.27	3.49	2.39	13.15	10.76	4.80	5.83	.50
1333	J. W. Martin, Houma .....	7.27	3.49	2.39	13.15	10.76	4.80	5.83	.50

1305	E. J. Gay Planting Co., Plaquemine	8.00	1.50	2.25	11.75	9.50	5.06	6.14	.58
1306	A. H. Gay, Plaquemine	8.00	1.50	2.25	11.75	9.50	5.06	6.14	.58
1307	O. D. Berwick, Foster	8.00	1.50	2.25	11.75	9.50	5.06	6.14	.58
1308	Edw. J. Gay Plant'g and Mfg. Co., Plaquemine	8.00	1.50	2.25	11.75	9.50	5.06	6.14	.58
1309	A. H. Gay, Plaquemine	8.00	1.50	2.25	11.75	9.50	5.06	6.14	.58
1310	Libby & Blouin, Lafourche Crossing	8.00	1.50	2.25	11.75	9.50	5.06	6.14	.58
1311	Iberville Planting Co., New Orleans	8.00	1.50	2.25	11.75	9.50	5.06	6.14	.58
2247	A. A. Bonvillain, Glencoe	7.50	2.23	2.50	12.23	9.73	5.10	6.32	....
2248	J. B. Pittman, Toup's Switch	7.50	2.23	2.50	12.23	9.73	5.10	6.32	....
2249	David Sealy, Lafourche Crossing	7.50	2.23	2.50	12.23	9.73	5.10	6.32	....
2250	Libby & Blouin, Lafourche Crossing	7.50	2.23	2.50	12.23	9.73	5.10	6.32	....
2251	Delgado & Co., New Orleans	7.50	2.23	2.50	12.23	9.73	5.10	6.32	....
2252	Delgado & Co., New Orleans	7.50	2.23	2.50	12.23	9.73	5.10	6.32	....
2562	Myrtle Grove Planting Co., New Orleans	....	....	2.50	12.50	10.00	5.36	6.51	....
2563	Myrtle Grove Planting Co., New Orleans	....	....	2.44	13.00	10.56	4.95	6.01	....
2564	Myrtle Grove Planting Co., New Orleans	....	....	2.35	13.46	11.11	5.34	6.48	....
2565	Myrtle Grove Planting Co., New Orleans	....	....	2.15	11.50	9.35	7.15	8.70	....
2694	Mrs. J. S. Webster, Lion	7.25	2.17	2.25	11.67	9.42	5.10	6.19	....
2695	Mrs. J. S. Webster, Lion	7.25	2.17	2.25	11.67	9.42	5.10	6.19	....
2696	Mrs. Prosper Troups, Oneil	7.25	2.17	2.25	11.67	9.42	5.10	6.19	....
2697	Iberville Planting Co., New Orleans	7.25	2.17	2.25	11.67	9.42	5.10	6.19	....
2698	Iberville Planting Co., New Orleans	7.25	2.17	2.25	11.67	9.42	5.10	6.19	....
2699	Iberville Planting Co., New Orleans	7.25	2.17	2.25	11.67	9.42	5.10	6.19	....
<i>Guarantee</i> .....		....	....	....	9.00	7.00	....	6.00	....
2799	Bradish-Johnson Co., New Orleans	....	....	2.34	12.87	10.53	5.35	6.49	....
2800	Libby & Blouin, Lafourche Crossing	....	....	2.34	12.87	10.53	5.35	6.49	....



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
	New Orleans Acid and Fertilizer Co., Gretna, La. SPECIAL SUGAR CANE GROWER NO. 67—Con.								
2801	Bradish-Johnson Co., New Orleans .....	.....	.....	2.34	12.87	10.53	5.35	6.49	.....
2802	Eli Wise, Abbeville .....	.....	.....	2.34	12.87	10.53	5.35	6.49	.....
2803	Lewis S. Webre, New Orleans .....	.....	.....	2.34	12.87	10.53	5.35	6.49	.....
2804	Jos. Webre Co., Ltd., New Orleans .....	.....	.....	2.34	12.87	10.53	5.35	6.49	.....
2867	Bradish-Johnson Co., New Orleans .....	.....	.....	2.42	12.69	10.27	5.35	6.49	.....
2929	Myrtle Grove Planting Co., New Orleans .....	7.20	3.42	2.15	12.77	10.62	5.02	6.09	.64
2930	Myrtle Grove Planting Co., New Orleans .....	7.20	3.42	2.15	12.77	10.62	5.02	6.09	.64
2931	Myrtle Grove Planting Co., New Orleans .....	7.20	3.42	2.15	12.77	10.62	5.02	6.09	.64
	SPECIAL SUGAR CANE GROWER NO. 106.								
	<i>Guarantee</i> .....	6.00	2.00	2.00	10.00	8.00	....	3.03	....
1133	McCollom Bros., Ellendale .....	6.75	2.20	2.13	11.08	8.95	3.64	4.42	.58
	SPECIAL SUGAR CANE GROWER NO. 106.								
	<i>Guarantee</i> .....	.....	.....	.....	8.00	6.00	....	10.00	....
1662	*Edmund McCollom, Ellendale .....	6.25	1.28	1.67	9.20	7.53	9.30	11.28	.49
2213	W. V. Nicholson, Lafayette .....	5.65	1.75	1.30	8.70	7.40	9.00	10.93	....
2798	O. D. Billon, Bayou Goula .....	.....	.....	1.91	9.83	7.92	9.24	11.22	....

New Orleans Acid and Fertilizer Co., Gretna, La.  
BLOOD BONE AND BEEF.

<i>Guarantee</i> .....	7.00	2.00	2.00	11.00	9.00	1.65	2.00	1.00
279 Jones & Pickett, Covington .....	8.70	2.07	4.13	14.90	10.77	1.65	2.00	1.18
1134 Wm. Atkinson & Bacot Co., Osyka, Miss. ....	11.92	1.75	3.98	17.65	13.67	1.98	2.40	2.27
1135 Fain & Krielow, Jennings .....	11.92	1.75	3.98	17.65	13.67	1.98	2.40	2.27
1191 M. L. Cohen, Amite City .....	7.45	2.35	5.90	15.70	9.80	1.65	2.00	1.00

SPECIAL NO. 1.

*Guarantee* not given.

1010 Libby & Blouin, Lafourche Crossing .....	8.55	2.83	2.37	13.75	11.38	4.31	5.24	.21
2700 J. D. Baughman, Farmerville .....	7.17	2.77	2.31	12.25	9.94	3.66	4.44	.80

SPECIAL NO. 2.

<i>Guarantee</i> .....	.....	.....	.....	5.00	.....	.....	9.00	....
2893 Oneida Planting and Manufacturing Co., Hester .....	5.50	1.99	1.58	9.07	7.49	8.96	10.88	....

ECONOMIZER.

<i>Guarantee</i> .....	7.00	2.00	2.00	.....	9.00	1.65	2.00	1.00
1297 Moore & Morris, Bell's Store .....	8.45	1.77	3.18	13.40	10.22	2.27	2.76	3.02
1298 Moore & Morris, Bell's Store .....	8.45	1.77	3.18	13.40	10.22	2.27	2.76	3.02
2191 Jas. Curry, St. Joseph .....	8.50	2.83	3.92	15.25	11.33	1.93	2.34	2.10
2192 B. R. Carney, Slaughter .....	8.50	2.83	3.92	15.25	11.33	1.93	2.34	2.10
2193 Moore & Morris, Ethel .....	8.50	2.83	3.92	15.25	11.33	1.93	2.34	2.10

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.						Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..				
	Ruston Oil Mill and Fertilizer Co., Ruston, La. COTTON KING.									
	<i>Guarantee</i> .....	6.00	2.00	1.00	9.00	8.00	1.75	...	2.00	2.00
1636	L. J. Bell, Choudrant .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1637	J. W. Garr, Dodson .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1638	S. H. Clinton, Clay .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1639	B. F. Post, Lillie .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1640	J. W. Garr, Dodson .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1641	L. J. Bell, Choudrant .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1642	J. J. Stovall, Dodson .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1643	B. F. Post, Lillie .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
1644	B. F. Post, Lillie .....	8.80	2.50	.77	12.07	11.30	1.65	2.00	1.38	1.38
2774	E. B. Robinson, Bernice .....	9.45	2.50	.85	12.80	11.95	1.95	2.37	1.08	1.08
2775	Burt & Robinson, Simsboro .....	9.45	2.50	.85	12.80	11.95	1.95	2.37	1.08	1.08
2776	W. H. Phillips, Simsboro .....	9.45	2.50	.85	12.80	11.95	1.95	2.37	1.08	1.08
2777	W. M. D. Garr, Hudson .....	9.45	2.50	.85	12.80	11.95	1.95	2.37	1.08	1.08
2778	J. W. Garr, Dodson .....	9.45	2.50	.85	12.80	11.95	1.95	2.37	1.08	1.08
2779	S. H. Clinton, Clay .....	9.45	2.50	.85	12.80	11.95	1.95	2.37	1.08	1.08
2780	L. E. Tate, Dubach .....	9.45	2.50	.85	12.80	11.95	1.95	2.37	1.08	1.08
2781	L. E. Tate, Dubach .....	9.05	2.60	1.00	12.65	11.65	2.00	2.43	.96	.96
2782	B. F. Post, Lillie .....	9.05	2.60	1.00	12.65	11.65	2.00	2.43	.96	.96



2783	S. H. Clinton, Clay .....	9.05	2.60	1.00	12.65	11.65	2.00	2.43	.96
2784	R. W. Tugwell, Winnfield .....	9.05	2.60	1.00	12.65	11.65	2.00	2.43	.96
2785	J. W. Garr, Dodson .....	9.05	2.60	1.00	12.65	11.65	2.00	2.43	.96
2786	B. F. Post, Lillie .....	9.05	2.60	1.00	12.65	11.65	2.00	2.43	.96
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	Shreveport Fertilizer Co., Shreveport, La. CADD O COTTON								
	<i>Guarantee</i> .....	6.00	2.00	1.00	9.00	8.00	2.05	2.50	1.00
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629	H. B. Bachelor, Ringgold .....	6.25	2.30	1.55	10.10	8.55	2.45	2.97	1.04
630	H. B. Bachelor, Ringgold .....	6.25	2.30	1.55	10.10	8.55	2.45	2.97	1.04
631	Ringgold Mercantile Co., Ringgold .....	6.25	2.30	1.55	10.10	8.55	2.45	2.97	1.04
632	O. G. Thomas, Ringgold .....	6.25	2.30	1.55	10.10	8.55	2.45	2.97	1.04
633	D. W. Hudson, Haynesville .....	6.25	2.30	1.55	10.10	8.55	2.45	2.97	1.04
634	Baker Bros., Athens .....	6.25	2.30	1.55	10.10	8.55	2.45	2.97	1.04
927	H. B. Bachelor, Ringgold .....	5.62	2.18	1.38	9.18	7.80	2.55	3.09	.62
1413	Lucky Bros., Bienville .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1414	Lisso Bros., Coushatta .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1415	Smart & Lyons, Leesville .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1416	Smart & Lyons, Leesville .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1417	J. E. McMahon, DeRidder .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1418	Smart & Lyons, Leesville .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1419	R. D. Cain, Rose Pine .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1420	Smart & Lyons, Leesville .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1421	Parrott & Lyons, Forest Hill .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1422	Parrott & Lyons, Forest Hill .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1423	Smart & Lyons, Leesville .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1424	I. N. Erwin, Oakdale .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
Shreveport Fertilizer Co., Shreveport, La. CADDO COTTON—Continued.									
1425	Smart & Ivons, Leesville .....	6.20	3.30	1.87	11.37	9.50	2.38	2.89	.70
1441	W. S. Jones, Jonesboro .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1442	Ringgold Mercantile Co., Ringgold .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1443	Baker Bros., Athens .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1444	T. J. Lawhon, Lawhon .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1445	H. B. Bachelor, Ringgold .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1446	W. S. Jones, Jonesboro .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1447	L. C. Page, Ringgold .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1448	J. G. Marsailles, Athens .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1449	S. L. Carter, Louisville .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1450	Baker Bros., Athens .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1451	H. B. Bachelor, Ringgold .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1452	A. L. Atkins, Arcadia .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1453	Baker Bros., Athens .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1454	S. S. & S. J. Gullatt, Ruston .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1455	F. J. Lawhon, Lawhon .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1456	J. F. Giles & Co., Sparepta .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1457	J. T. Davis, Lanesville .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1458	A. L. Atkins, Arcadia .....	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02

1459	S. S. & S. J. Gullatt, Ruston	6.55	2.14	2.77	11.46	8.69	2.30	2.78	1.02
1898	Robt. Aaron, Pineville	6.47	2.09	1.34	9.90	8.56	2.26	2.74	1.00
1899	E. W. Teddlie, St. Maurice	6.47	2.09	1.34	9.90	8.56	2.26	2.74	1.00
1900	McMahon & Moore, Singer	6.47	2.09	1.34	9.90	8.56	2.26	2.74	1.00
1901	Conerly & Co., Hornbeek	6.47	2.09	1.34	9.90	8.56	2.26	2.74	1.00
1902	H. Manheim, Florien	6.47	2.09	1.34	9.90	8.56	2.26	2.74	1.00
1903	R. D. Cain, Rosepine	6.47	2.09	1.34	9.90	8.56	2.26	2.74	1.00
1904	J. E. McMahon, DeRidder	6.47	2.09	1.34	9.90	8.56	2.26	2.74	1.00
1944	Phillips & Erwin, Glenmora	7.15	3.18	1.52	11.85	10.33	2.26	2.74	.93
1945	J. W. Rudisell, Boyce	7.15	3.18	1.52	11.85	10.33	2.26	2.74	.93
1946	J. H. McNeely, Colfax	7.15	3.18	1.52	11.85	10.33	2.26	2.74	.93
1947	A. T. & G. G. Nelson, Homer	7.15	3.18	1.52	11.85	10.33	2.26	2.74	.93
1948	A. A. & G. G. Nelson, Homer	7.15	3.18	1.52	11.85	10.33	2.26	2.74	.93
1949	A. L. Atkins & Son, Arcadia	7.15	3.18	1.52	11.85	10.33	2.26	2.74	.93
2254	A. L. Atkins, Arcadia	7.20	2.17	1.53	10.90	9.37	2.45	2.97	1.64
2255	D. W. Hudson, Haynesville	7.20	2.17	1.53	10.90	9.37	2.45	2.97	1.64
2256	A. L. Atkins & Sons, Arcadia	7.20	2.17	1.53	10.90	9.37	2.45	2.97	1.64
2257	S. S. & S. J. Gullatt, Ruston	7.20	2.17	1.53	10.90	9.37	2.45	2.97	1.64
2258	S. S. & S. J. Gullatt, Ruston	7.20	2.17	1.53	10.90	9.37	2.45	2.97	1.64
2259	M. H. Bayett, Dubberly	7.20	2.17	1.53	10.90	9.37	2.45	2.97	1.64
2260	M. Jarrell & Bro., Columbia	7.20	2.17	1.53	10.90	9.37	2.45	2.97	1.64
2319	Joiner Bros., Pelican	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26
2320	J. E. McMahon, DeRidder	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26
2321	Smart & Lyons, Leesville	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26
2322	Jackson & Kidd, Mansfield	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26
2323	Joiner Bros., Pelican	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26
2324	R. Y. Best & Bro., Benson	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26
2325	Smart & Lyons, Leesville	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26

Station No. ...	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..				
Shreveport Fertilizer Co., Shreveport, La. CADDO COTTON—Continued.										
2326	R. D. Cain, Rosepine .....	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26	
2327	J. E. McMahon, DeRidder .....	7.43	2.59	1.56	11.58	10.02	2.19	2.66	1.26	
2364	A. L. Atkins, Arcadia .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2365	Jackson & Kidd, Mansfield .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2366	S. S. & S. J. Gullatt, Ruston .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2367	Jackson Bros., Doyline .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2368	Baker Bros., Athens .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2369	S. S. & S. J. Gullatt, Ruston .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2370	Lucky Bros., Bienville .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2371	J. B. Whittington, Benton .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2372	Lee & Calhoun, Calhoun .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2373	R. B. Trussell & Co., Simsboro .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2374	McCoy & Co., Dubberly .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2375	S. S. & S. J. Gullatt, Ruston .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2376	Atkins Bros., Coushatta .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2377	Jackson & Kidd, Mansfield .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2378	J. T. Maury, Plain Dealing .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2379	E. W. Teddlie, St. Maurice .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	
2380	A. L. Atkins, Arcadia .....	6.60	2.33	1.72	10.65	8.93	2.50	3.03	1.00	



2676	A. T. & G. G. Nelson, Homer	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2677	S. S. & S. J. Gullatt, Ruston	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2678	A. T. & G. G. Nelson, Homer	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2679	A. T. & G. G. Nelson, Homer	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2680	Lucky Bros., Bienville	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2681	Lucky Bros., Bienville	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2682	S. S. & S. J. Gullatt, Ruston	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2683	Lucky Bros., Bienville	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2684	Warren Reitz	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2685	McCoy & Co., Dubberly	6.88	2.15	2.15	11.18	9.03	2.38	2.89	1.33
2702	A. L. Atkinson & Son, Arcadia	6.37	2.47	1.41	10.25	8.84	2.50	3.03	1.80
2703	S. S. & S. J. Gullatt, Ruston	6.37	2.47	1.41	10.25	8.84	2.50	3.03	1.80
2704	A. T. & G. G. Nelson, Homer	6.37	2.47	1.41	10.25	8.84	2.50	3.03	1.80
2705	D. W. Hudson, Haynesville	6.37	2.47	1.41	10.25	8.84	2.50	3.03	1.80
2706	J. M. Henderson, Hugh's Spur	6.37	2.47	1.41	10.25	8.84	2.50	3.03	1.80
2707	S. S. & S. J. Gullatt, Ruston	6.37	2.47	1.41	10.25	8.84	2.50	3.03	1.80
2835	Smart & Lyons, Leesville	7.00	2.40	1.15	10.55	9.40	2.15	2.61	1.50
2836	J. E. McMahon, DeRidder	7.00	2.40	1.15	10.55	9.40	2.15	2.61	1.50
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Shreveport Fertilizer Co., Shreveport, La.									
CADD0 CORN.									
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	Guarantee	4.00	2.00	1.00	7.00	6.00	....	3.50	1.00
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920	Ringgold Mercantile Co., Ringgold	4.50	3.33	1.40	9.23	7.83	3.04	3.69	.52
921	D. W. Hudson, Haynesville	4.50	3.33	1.40	9.23	7.83	3.04	3.69	.52
922	H. B. Bachelor, Ringgold	4.50	3.33	1.40	9.23	7.83	3.04	3.69	.52
923	Baker Bros., Athens	4.50	3.33	1.40	9.23	7.83	3.04	3.69	.52
1433	Baker Bros., Athens	4.47	2.11	.92	7.50	6.58	3.33	4.04	.84

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
Shreveport Fertilizer Co., Shreveport, La. Caddo Corn—Continued.									
1434 Smart & Lyons, Leesville .....		4.47	2.11	.92	7.50	6.58	3.33	4.04	.84
1431 A. L. Atkins, Arcadia .....		4.60	1.74	1.16	7.50	6.34	3.58	4.33	.75
1432 Lucky Bros., Bienville .....		4.60	1.74	1.16	7.50	6.34	3.58	4.33	.75
1492 J. F. Giles & Co., Spring Hill .....		4.47	2.11	.92	7.50	6.58	3.33	4.04	.84
1493 A. L. Atkins, Arcadia .....		4.47	2.11	.92	7.50	6.58	3.33	4.04	.84
1494 L. C. Page, Ringgold .....		4.47	2.11	.92	7.50	6.58	3.33	4.04	.84
1495 T. J. Lawhon, Lawhon .....		4.47	2.11	.92	7.50	6.58	3.33	4.04	.84
1496 S. L. Carter, Lanesville .....		4.47	2.11	.92	7.50	6.58	3.33	4.04	.84
1893 H. Monheim, Florian .....		5.25	2.03	.84	8.12	7.28	3.18	3.86	1.05
1894 Robt. Aaron, Pineville .....		5.25	2.03	.84	8.12	7.28	3.18	3.86	1.05
1895 E. W. Teddlie, St. Maurice .....		5.25	2.03	.84	8.12	7.28	3.18	3.86	1.05
1896 J. H. McNeely, Colfax .....		5.25	2.03	.84	8.12	7.28	3.18	3.86	1.05
1897 Conerly & Co., Hornbeck .....		5.25	2.03	.84	8.12	7.28	3.18	3.86	1.05
2417 J. F. Maury, Plain Dealing .....		5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2418 Joyner Bros., Pelican .....		5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2419 S. S. & S. J. Gullatt, Ruston .....		5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2420 A. L. Atkins, Arcadia .....		5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2421 McCoy & Co., Dubberly .....		5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2422 Jackson Bros., Doyline .....		5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06

2423	S. S. & S. J. Gullatt, Ruston .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2424	R. B. Trussell & Co., Simsboro .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2425	D. W. Hudson, Haynesville .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2426	A. L. Atkins, Arcadia .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2427	Lee & Calhoun, Calhoun .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2428	A. L. Atkins, Arcadia .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2429	Lucky Bros., Bienville .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2430	S. S. & S. J. Gullatt, Ruston .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2431	A. L. Atkins & Son, Arcadia .....	5.80	2.18	1.17	9.15	7.98	3.32	4.03	1.06
2432	Jackson & Kidd, Mansfield .....	5.50	2.35	1.40	9.25	7.85	3.14	3.81	1.00
2433	R. Y. Best & Bro., Benson .....	5.50	2.35	1.40	9.25	7.85	3.14	3.81	1.00
2434	Joyner Bros., Pelican .....	5.50	2.35	1.40	9.25	7.85	3.14	3.81	1.00
2475	Lucky Bros., Bienville .....	5.38	2.19	1.12	8.69	7.57	3.16	3.83	1.03
2747	A. L. Atkins & Son, Arcadia .....	5.02	1.90	1.00	7.92	6.92	2.95	3.58	.84
2748	J. W. Henderson, Hugh's Spur .....	5.02	1.90	1.00	7.92	6.92	2.95	3.58	.84
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Shreveport Fertilizer Co., Shreveport, La.									
VEGETABLE.									
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<i>Guarantee</i> .....									
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1409	S. S. & S. J. Gullatt, Ruston .....	4.15	2.84	.78	7.77	6.99	3.75	4.53	.84
1938	Conerly & Co., Hornbeck .....	6.30	1.75	1.02	9.07	8.05	3.00	3.64	.90
2253	J. F. Maury, Plain Dealing .....	6.33	2.10	1.00	9.43	8.43	3.21	3.90	1.60
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CROWN.									
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<i>Guarantee</i> .....									
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2385	Goodwill, Minden .....	8.20	3.75	2.02	13.97	11.95	2.83	3.43	1.00

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
	STAR.								
	<i>Guarantee</i> .....	5.00	2.00	1.00	8.00	7.00	1.65	2.00	1.00
1939	H. Manheim, Florian .....	6.20	1.82	.85	8.87	8.02	1.78	2.16	.84
	SPECIAL FORMULA.								
	<i>Guarantee</i> .....	4.00	2.00	1.00	.....	6.00	....	4.00	6.00
2386	A. K. Klingman, Keithville .....	7.45	3.18	1.52	12.15	10.63	2.25	2.73	1.27
	Standard Guano & Chemical Manufacturing Co., New Orleans.								
	AMMONIATED RAW BONE SUPER- PHATE.								
	<i>Guarantee</i> .....	4.00	5.00	.....	.....	9.00	1.65	....	1.50
9	J. R. Abels, Ponchatoula .....	5.66	3.58	1.86	11.10	9.24	1.67	2.02	1.64
26	Perkins & Miller Lumber Co., Westlake .....	6.02	3.34	1.87	11.23	9.36	1.68	2.04	1.78
27	Mrs. W. G. Wilson, Independence .....	6.02	3.34	1.87	11.23	9.36	1.68	2.04	1.78
28	L. Kaufman, Lake Charles .....	6.02	3.34	1.87	11.23	9.36	1.68	2.04	1.78
29	Hy Hoffman, Abita Springs .....	6.02	3.34	1.87	11.23	9.36	1.68	2.04	1.78



30	Perkins & Miller Lumber Co., Westlake.....	6.02	3.34	1.87	11.23	9.36	1.68	2.04	1.78
31	Cary & Humphrey, Jennings.....	6.02	3.34	1.87	11.23	9.36	1.68	2.04	1.78
64	F. E. Neelis & Co., Hammond.....	5.84	3.46	1.86	11.16	9.30	1.68	2.04	1.71
65	Dolhonde & Co., Independence.....	5.84	3.46	1.86	11.16	9.30	1.68	2.04	1.71
108	G. W. Newsom, Tiekfaw.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
109	Knight & Co., Covington.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
110	D. M. Wadsworth & Bro., Covington.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
111	D. E. Branch & Co., Covington.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
112	Bickham Bros., Ltd., Franklinton.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
113	A. Kluchin, Independence.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
114	A. Kluchin, Independence.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
115	J. R. Abels, Ponchatoula.....	5.75	3.52	1.87	11.14	9.27	1.67	2.02	1.67
175	Babington Bros., Ltd., Franklinton.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
176	Babington Bros., Franklinton.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
177	J. J. Capdeville, Baton Rouge.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
178	D. M. Wadsworth & Bro., Covington.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
179	Royals & Magee, Warnerton.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
180	J. R. Abels, Ponchatoula.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
181	J. A. Burres & Co., Covington.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
182	J. A. Burres & Co., Covington.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
183	Conerly Bros., Warnerton.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
184	M. A. Magee & Son, Zona.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
185	M. McDougall, Covington.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
186	I. L. Sauls & Son, Arcola.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
187	J. R. Abels, Ponchatoula.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
188	A. M. Arthur, Jennings.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
189	S. D. Bullock, Covington.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72
190	L. Kaufman, Lake Charles.....	5.89	3.43	1.87	11.19	9.32	1.68	2.04	1.72

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..				
Standard Guano and Chemical Manufacturing Co., New Orleans.										
AMMONIATED RAW BONE SUPERPHOSPHATE—Con.										
191	Babington Bros., Ltd., Franklinton .....	5.78	3.51	1.86	11.15	9.29	1.67	2.02	1.68	
192	J. R. Abels, Ponchatoula .....	5.78	3.51	1.86	11.15	9.29	1.67	2.02	1.68	
193	J. J. Capdeville, Baton Rouge .....	5.78	3.51	1.86	11.15	9.29	1.67	2.02	1.68	
194	Cary & Humphrey, Jennings .....	5.78	3.51	1.86	11.15	9.29	1.67	2.02	1.68	
195	A. Mutte, Abita Springs .....	5.78	3.51	1.86	11.15	9.29	1.67	2.02	1.68	
196	E. P. Franklin & Son, Leesville .....	5.78	3.51	1.86	11.15	9.29	1.67	2.02	1.68	
197	H. J. Smith, Covington .....	5.78	3.51	1.86	11.15	9.29	1.67	2.02	1.68	
224	Cary & Humphrey, Jennings .....	6.77	3.46	2.38	12.61	10.23	1.96	2.38	1.85	
225	Babington Bros., Ltd., Franklinton .....	6.77	3.46	2.38	12.61	10.23	1.96	2.38	1.85	
226	L. Kaufman, Lake Charles .....	6.77	3.46	2.38	12.61	10.23	1.96	2.38	1.85	
227	Babington Bros., Franklinton .....	6.77	3.46	2.38	12.61	10.23	1.96	2.38	1.85	
320	Bickham & Son, Bickham .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79	
321	M. A. Magee & Co., Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79	
322	Corkern Bros., Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79	
323	S. D. Bullock, Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79	
324	Babington Bros., Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79	
325	H. G. Smith, Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79	
326	D. M. Wadsworth & Bro., Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79	

327	W. N. Graves, Warnerton .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
328	D. E. Branch & Co., Warnerton .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
329	E. J. Frederick, Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
330	J. A. Burres & Bro., Mt. Herman .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
331	J. A. Burres & Bro., Warnerton .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
332	E. W. Ott, Mt. Herman .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
333	I. L. Heyman & Son, Clinton .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
334	J. M. Brock & Co., Mt. Herman .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
335	H. H. Smith, Covington .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
336	Ronaldson & Puckett Co., Baton Rouge .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
337	Scott Perkins, Clinton .....	6.33	3.45	2.12	11.90	9.78	1.82	2.21	1.79
363	R. H. Magee, Varnado .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
364	W. P. Hutchinson, Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
365	S. P. Richardson, Mt. Herman .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
366	B. T. Young, Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
367	J. E. Varnado & Bro., Mt. Herman .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
368	Jno. T. George, Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
369	H. J. Sanders, Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
370	J. R. Abels, Ponchatoula .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
371	Jno. Tate & Co., Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
372	Jno. T. George, Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
373	J. J. Capdeville, Baton Rouge .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
374	J. E. Bateman, Warnerton .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
375	E. W. Ott, Mt. Herman .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
376	Jno. T. George, Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
377	S. P. Richardson, Mt. Herman .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
378	Collins Bros., Warnerton .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
379	W. P. Hutchinson, Tangipahoa .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
	Standard Guano and Chemical Manufacturing Co., New Orleans.								
	AMMONIATED RAW BONE SUPERPHOSPHATE—Con.								
380	Babington Bros., Franklinton .....	6.05	3.48	1.98	11.51	9.53	1.75	2.12	1.74
448	Perkins & Miller Lumber Co., Westlake.....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
449	D. M. Wadsworth & Bro., Covington .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
450	Lampton Mercantile Co., Magnolia, Miss.....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
451	D. E. Branch & Co., Warrington .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
452	I. L. Heyman & Son, Clinton .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
453	I. E. Phillips, Warrington .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
454	G. W. Seal & Co., Layden's Bluff .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
455	J. O. Magee, Mt. Herman .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
456	D. H. Sanders, Amite City .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
457	Jones & Nolan, DeRidder .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
458	J. J. Capdeville, Baton Rouge .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
459	Jones & Whittaker, Baton Rouge .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
460	I. L. Heyman & Son, Clinton .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
461	W. P. Hutchinson, Tangipahoa .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
462	Sam Haas, Gold Dust .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
463	G. W. Seal & Co., Varnado .....	6.41	3.47	2.18	12.06	9.88	1.85	2.24	1.80
464	G. W. Seal & Co., Varnado .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79



465	Jones & Nolan, DeRidder .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
466	S. D. Bullock, Covington .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
467	Millsaps & Co., Ltd., W. Monroe .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
468	Lock, Moore & Co., Ltd., Westlake .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
469	Lock, Moore & Co., Ltd., Westlake .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
470	H. J. Sanders, Tangipahoa .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
471	W. E. Hawkins, Gold Dust .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
472	John Tate & Co., Tangipahoa .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
473	John T. George, Tangipahoa .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
474	W. H. Richardson, Wilcox .....	6.37	3.46	2.15	11.98	9.83	1.83	2.22	1.79
556	J. E. Varnado & Bro., Mt. Herman .....	7.15	2.50	2.47	12.12	9.65	1.93	2.35	1.80
557	D. H. Sanders, Amite City .....	7.15	2.50	2.47	12.12	9.65	1.93	2.35	1.80
558	K. P. Day, Clinton .....	7.15	2.50	2.47	12.12	9.65	1.93	2.35	1.80
559	Bickham & Son, Bickham .....	7.15	2.50	2.47	12.12	9.65	1.93	2.35	1.80
560	Babington Bros., Franklinton .....	7.15	2.50	2.47	12.12	9.65	1.93	2.35	1.80
613	W. G. Wilson, Independence .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
614	J. A. Burres & Co., Mt. Herman .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
615	Burres & Bro., Warronton .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
616	Royals & Magee, Warronton .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
617	J. Frank, Lake Charles .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
618	Mrs. B. Stern, Amite City .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
619	Bickham & Son, Bickham .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
620	John Tate & Co., Tangipahoa .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
621	J. A. Burres & Co., Warronton .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
622	F. P. Sones, Otis .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
623	J. A. Wheat & Co., Otis .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
624	W. J. Garland, Haynesville .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
625	R. H. Magee, Varnado .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
Standard Guano and Chemical Mfg. Co., New Orleans									
AMMONIATED RAW BONE SUPERPHOSPHATE—Con.									
626	J. L. Sauls & Son, Arcola .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
627	O. P. Thomas, Warnerton .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
628	S. P. Richardson, Mt. Herman .....	4.92	6.45	2.40	13.77	11.37	1.65	2.00	1.53
681	Babington Bros., Ltd., Covington .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
682	B. T. Young, Tangipahoa .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
683	Bickham & Son, Bickham .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
684	W. P. Hutchinson, Tangipahoa .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
685	Lampton Mercantile Co., Magnolia, Miss. ....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
686	Babington Bros., Ltd., Covington .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
687	O. Lejeune, Rayne .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
688	B. T. Young, Tangipahoa .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
689	Jno. Tate & Co., Tangipahoa .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
690	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
691	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
692	J. West Holmes, Warnerton .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
693	B. L. Saunders, Ethel .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
694	Mrs. B. Stern, Amite City .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
695	Babington Bros., Ltd., Covington .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
696	Abney & Magee, Mt. Herman .....	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66

697	R. L. Easley, Tangipahoa	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
698	Isadore Mayer, Clinton	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
699	J. O. Magee, Sunny Hill	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
700	Wm. Atkinson & Bacot Co., Osyka, Miss	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
701	J. A. Burres & Co., Mt. Herman	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
702	L. Kaufman, Lake Charles	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
703	Lucky Bros., Bienville	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
704	Frankle & Mayer, Eunice	5.65	4.95	2.28	12.88	10.60	1.74	2.11	1.66
705	Simon Greehman, Independence	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
706	B. T. Young, Tangipahoa	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
707	D. M. Wadsworth & Bro., Covington	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
708	B. F. Thompson, Ruston	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
709	J. J. Capdeville, Baton Rouge	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
710	Collins Bros., Wernerton	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
711	I. N. Varnado, Osyka, Miss	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
712	H. J. Smith, Covington	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
713	D. H. Sanders, Amite City	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
714	C. M. Barrow, Bayou Sara	6.40	3.72	2.38	12.50	10.12	1.84	2.23	1.73
715	Babington Bros., Ltd., Franklinton	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
716	Mrs. B. Stern, Amite City	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
717	J. M. Brock, Mt. Herman	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
718	Burres & Co., Wernerton	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
719	Bryan Co., Edgally	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
720	Connerly Bros., Hornbeck	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
721	J. E. Varnado & Bro., Mt. Herman	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
722	M. A. Talbot, Bernice	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
723	Jno. T. George, Tangipahoa	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
724	J. W. Desongue, Hammond	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
	Standard Guano and Chemical Manufacturing Co., New Orleans.								
	AMMONIATED RAW BONE SUPERPHOSPHATE—Con.								
725	J. S. Allen, Sarepta .....	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
726	R. L. Taylor, Tangipahoa .....	6.38	3.59	2.22	12.19	9.97	1.83	2.22	1.76
727	Luke Elliott, Amite City .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
728	B. L. Sanders, Ethel .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
729	J. A. Burres & Co., Wamerton .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
730	Dudley Bros., Jackson .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
731	S. Israel, Clinton .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
732	Mrs. W. G. Wilson, Independence .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
733	J. E. Crichton, Minden .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
734	W. P. Hutchinson, Tangipahoa .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
735	L. D. Morgan, Tangipahoa .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
736	I. N. Varnado, Osyka, Miss. ....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
737	J. D. Brock, Broekdale .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
738	Luke Brown, Slaughter .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
739	Wm. Atkinson & Bacot Co., Osyka, Miss .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
740	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
741	W. A. Bell, Amite City .....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
742	J. B. McMillan, Wheat Landing.....	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65



743	Alford & Snell, Mt. Herman	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
744	Wm. Atkinson & Bacot Co., Osyka, Miss.	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
745	Hy Vermersch, Ethel	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
746	A. Kluchin, Independence	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
747	Jones & Whittaker, Baton Rouge	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
748	J. Renwick, Monroe	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
749	Chas. F. Rateliff, Zachary	5.65	5.02	2.31	12.98	10.67	1.74	2.11	1.65
1032	R. M. Young, Phillips	6.50	3.50	3.75	13.75	10.00	1.68	2.04	1.50
1071	W. L. Morris & Co., W. Monroe	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1072	Simon Davis, Wilson	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1073	Leon H. Wolf, Zachary	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1074	R. L. Taylor, Tangipahoa	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1075	Leon H. Wolf, Zachary	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1076	A. J. Albritton, Slaughter	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1077	Wilson Mercantile Co., Wilson	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1078	R. L. Taylor, Tangipahoa	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1079	J. Frank, Lake Charles	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1080	D. H. Sanders, Amite City	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1081	B. T. Young, Tangipahoa	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1082	Frankle & Mayer, Eunice	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1083	M. A. Talbot, Bernice	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1084	Lampton Mercantile Co., Magnolia, Miss.	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1085	J. E. Crichton, Minden	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1086	Jones & Whittaker, Baton Rouge	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1087	J. M. Brock & Co., Mt. Herman	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1088	H. G. Magee, Warrerton	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1089	B. F. Thompson, Ruston	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52
1090	J. G. Hodges, Haughton	5.71	4.98	3.07	13.76	10.69	1.66	2.01	1.52



1109	J. R. Abels, Ponchatoula .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1110	Robinson & Day, Welsh .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1111	Sulphur Mercantile Co., Sulphur .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1112	D. M. Wadsworth & Bro., Covington .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1113	W. J. Garland & Son, Haynesville .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1114	Caldwell & Pollock, Dubach .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1115	Millsaps & Co., Ltd., Monroe .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1116	Millsaps & Co., Ltd., W. Monroe .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1117	Sulphur Mercantile Co., Sulphur .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1118	Mrs. B. Stern, Amite City .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1119	W. A. Ball, Amite City .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1120	H. H. Smith, Covington .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1121	E. J. Frederick, Covington .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1122	Lampton Mercantile Co., Magnolia, Miss. ....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1361	B. L. Gladney, Bastrop .....	6.08	4.26	3.03	13.37	10.34	1.71	2.07	1.58
1362	Herman Cutrer, Cutrer's Switch .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1363	Bickham & Son, Bickham .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1364	J. E. Varnado, Mt. Herman .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1365	C. W. Ott, Mt. Herman .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1366	C. W. Boyce, Pineville .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1367	Abney & Magee, Mt. Herman .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1368	L. Kaufman, Lake Charles .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1369	H. H. Smith, Covington .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1370	W. J. Garland & Son, Haynesville .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1371	Caldwell & Pollock, Hico .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1372	Lampton Mercantile Co., Magnolia, Miss. ....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1373	Leon H. Wolf, Zachary .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1374	W. P. Hutchinson, Tangipahoa .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54

Station No. . . .	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
1315	Hy Vernerssch, Ethel .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1316	S. P. Richardson, Mt. Herman .....	6.29	3.88	3.39	13.56	10.17	1.69	2.05	1.54
1317	A. J. Albrighton, Slaughter .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1318	J. D. Brock, Brockdale .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1319	Babington Bros., Ltd., Franklinton .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1320	J. E. Crichton, Minden .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1321	Simon Davis, Wilson .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1322	J. S. Brock, Brockdale .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1323	Jones & Whittaker, Baton Rouge .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1324	Chas. F. Ratcliff, Zachary .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1325	A. Dabrowski, Ethel .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1326	Mrs. B. Stern, Amite City .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1327	D. M. Wadsworth & Bro., Covington .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1328	L. H. Wolf, Zachary .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1329	R. L. Taylor, Tangipahoa .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1390	Enterprise Rice and Farming Co., Lake Charles.....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1391	C. W. Boyce, Pineville .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1392	Bryan Co., Ltd., Edgarty .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
	Standard Guano and Chemical Manufacturing Co., New Orleans.								
	AMMONIATED RAW BONE SUPERPHOSPHATE—Con.								

Standard Guano and Chemical Manufacturing Co.,  
New Orleans.  
AMMONIATED RAW BONE SUPERPHOSPHATE—Con.



1393	D. H. Sanders, Amite City .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1394	Ronaldson & Puckett Co., Ltd., Baton Rouge .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1395	G. H. Morse & Sons, Jennings .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1396	Chas. F. Ratcliff, Zachary .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1397	Jones & Nolan, DeRidder .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1398	Hy Langford, Tangipahoa .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1399	Chas. F. Ratcliff, Zachary .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1400	H. C. Drew, Edgely .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1401	W. J. Garland, Haynesville .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1402	D. H. Taylor, Tangipahoa .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1403	Dardeau & Corell, Opelousas .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1404	E. E. Kennon, Sibley .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1405	Leon Wolf, Zachary .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1406	Isadore Mayer, Clinton .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1407	S. Israel, Clinton .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1408	Mrs. W. G. Wilson, Independence .....	6.00	4.43	3.26	13.69	10.43	1.67	2.02	1.53
1727	R. L. Taylor, Tangipahoa .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1728	W. J. Garland & Son, Haynesville .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1729	M. A. Talbot, Bernice .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1730	J. R. Lyles & Co., Ltd., Kinder .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1731	J. H. Frasier, Choudran .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1732	Mrs. B. Stern, Amite City .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1733	Barham & Co., Oak Ridge .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1734	Jones & Whittaker, Baton Rouge .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1735	H. E. Perkins, Sulphur .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1736	Perkins & Miller Lumber Co., Westlake .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1737	Sulphur Mercantile Co., Sulphur .....	6.04	4.35	3.15	13.54	10.39	1.69	2.05	1.56
1738	J. M. Brock & Co., Mt. Hernan .....	6.27	3.92	3.45	13.65	10.20	1.68	2.04	1.53

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available...			
1739	P. S. Lovell, Crowley .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1740	Leon H. Wolf, Zachary .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1741	Leon H. Wolf, Zachary .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1742	D. H. Sanders, Amite City .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1743	W. A. Bell, Amite City .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1744	Stille & Yarborough, Robeline .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1745	Collins Bros., Warrington .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1746	J. C. Woodward, Dubberly .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1747	H. H. Smith, Covington .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1748	Sulphur Mercantile Co., Sulphur .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1749	N. B. Brown, Baker .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1750	H. G. Magee & Co., Warrington .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1751	Mrs. B. Stern, Amite City .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1752	G. W. Peyton, Grand Cane .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1753	Chas. F. Ratcliff, Clinton .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1754	A. Dabrowski, Ethel .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1755	Millsaps & Co., W. Monroe .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1756	Caldwell & Pollock, Dubach .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53

Standard Guano and Chemical Manufacturing Co.,  
New Orleans.  
AMMONIATED RAW BONE SUPERPHOSPHATE—Con.

1757 Jones & Whittaker, Baton Rouge .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1758 Cary & Humphrey, Jennings .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1759 Jno. B. Lyles & Co., Kinder .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1760 R. L. Taylor, Tangipahoa .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1761 Leon H. Wolf, Zachary .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1762 E. W. Ott, Mt. Herman .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1763 J. E. Crichton, Minden .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1764 J. G. Hodges, Haughton .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1765 W. J. Garland & Son, Haynesville .....	6.27	3.93	3.45	13.65	10.20	1.68	2.04	1.53
1766 Jno. R. Lyles & Co., Ltd., Kinder .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1767 W. C. Harvell, Amite City .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1768 Geo. W. Ford, Burissa .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1769 J. Frank, Lake Charles .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1770 R. L. Easley, Tangipahoa .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1771 W. W. Worthy, Ethel .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1772 W. W. Worthy, Ethel .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1773 W. R. McKowen & Co., Jackson, La. ....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1774 W. J. Garland & Son, Haynesville .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1775 L. W. Crow, Genereilly .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1776 Jno. Hughes, Hard Times .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1777 C. W. Boyce, Pineville .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1778 Green Bickham, Roseland .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1779 Robt. Worrell, St. Joseph .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1780 H. C. Drew, Lake Charles .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1781 Mrs. B. Stern, Amite City .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1782 G. H. Morse & Son, Jennings .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
1783 L. D. Morgan, Tangipahoa .....	6.14	4.18	3.35	13.67	10.32	1.67	2.02	1.53
2214 Walter Parker, Abita Springs .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total. ....	Available ..			
Standard Guano and Chemical Manufacturing Co., New Orleans. AMMONIATED RAW BONE SUPERPHOSPHATE—Con.									
2215	W. J. Garland & Son, Haynesville .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2216	E. J. Frederick, Covington .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2217	S. Israel, Clinton .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2218	L. Kaufman, Lake Charles .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2219	Millsaps & Co., Ltd., W. Monroe.....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2220	A. V. Saucier, Marksville .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2221	Cole Bros., Roseland .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2222	Mrs. B. Stern, Amite City .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2223	Chas. F. Ratcliff, Zachary .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2224	Lampton Mercantile Co., Magnolia, Miss.....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2225	Babington Bros., Ltd., Covington .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2226	W. P. Hutchinson, Tangipahoa .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2227	W. L. Morris & Co., W. Monroe .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2228	I. L. Heyman & Son., Clinton .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2229	Jno. R. Lyles & Co., Kinder .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2230	J. M. Brock & Co., Mt. Herman .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2231	Babington & Co., Covington .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2232	G. E. Mott, Oak Ridge .....	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38



2233	Wm. Atkinson & Bacot Co., Osyka, Miss.	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2234	R. L. Taylor, Tangipahoa	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2235	Perkins & Miller Lumber Co., Westlake	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2236	H. C. Drew, Lake Charles	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2237	Sulphur Mercantile Co., Sulphur	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2238	J. E. Orichton, Minden	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2239	Sulphur Mercantile Co., Sulphur	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2240	H. H. Smith, Covington	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2241	W. J. Garland & Son, Haynesville	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2242	Chas. F. Ratcliff, Zachary	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2243	C. W. Boyce, Pineville	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2244	M. Morris, Hard Times	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2245	J. J. Chandler, Amite City	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2246	W. F. Holton, Sherwood	7.33	2.38	2.37	12.08	9.71	2.15	2.61	2.38
2388	R. L. Taylor, Tangipahoa	7.93	2.34	1.90	12.17	10.27	2.36	2.87	1.61
2389	H. Bondurant, Sr., Stafford's Point	7.93	2.34	1.90	12.17	10.27	2.36	2.87	1.61
2390	H. H. Smith, Covington	7.93	2.34	1.90	12.17	10.27	2.36	2.87	1.61
2391	Millsaps & Co., Ltd., W. Monroe	7.93	2.34	1.90	12.17	10.27	2.36	2.87	1.61
2392	D. H. Sanders, Amite City	7.93	2.34	1.90	12.17	10.27	2.36	2.87	1.61
2399	Mrs. B. Stern, Amite City	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2400	W. R. McKown & Co., Jackson	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2401	W. R. McKown & Co., Jackson	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2402	W. W. Worthy, Ethel	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2403	Jones & Whittaker, Baton Rouge	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2404	S. Israel, Clinton	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2405	Lampton Mercantile Co., Magnolia, Miss.	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2406	Millsaps & Co., Ltd., W. Monroe for—	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
	D. D. Wood, Mouth Chinie	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
2407	Standard Guano and Chemical Manufacturing Co., New Orleans.	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2408	W. J. Garland & Son, Haynesville .....	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2409	Lampton Mercantile Co., Magnolia, Miss. ....	8.33	2.37	1.75	12.45	10.70	2.36	2.87	1.64
2493	R. L. Taylor, Tangipahoa .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2494	Jones & Whittaker, Baton Rouge .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2495	I. L. Heyman & Son, Clinton .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2496	Sulphur Mercantile Co., Sulphur .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2497	J. R. Abels, Ponchatoula .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2498	Jno. T. George, Tangipahoa .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2499	Chas. T. Ratcliff, Zachary .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2500	D. F. Clarke, Fardoche .....	7.83	2.38	2.06	12.27	10.21	2.25	2.73	2.01
2621	H. C. Drew, Lake Charles .....	7.88	2.36	1.98	12.22	10.24	2.30	2.79	1.81
2622	A. Kluchin, Independence .....	7.88	2.36	1.98	12.22	10.24	2.30	2.79	1.81
2623	Mrs. B. Stern, Amite City .....	7.88	2.36	1.98	12.22	10.24	2.30	2.79	1.81
2624	Mrs. W. G. Wilson, Independence .....	7.88	2.36	1.98	12.22	10.24	2.30	2.79	1.81
2876	L. Kaufman, Lake Charles .....	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72
2877	Chas. F. Ratcliff, Zachary .....	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72
2878	L. Kaufman, Lake Charles .....	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72

2879	Chas. Feahney, New Orleans	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72
2880	A. Kluchin, Independence	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72
2881	R. L. Taylor, Tangipahoa	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72
2882	Salem Brick and Lumber Co., Slidell	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72
2883	Chas. F. Rateliff, Zachary	8.11	2.37	1.85	12.33	10.48	2.33	2.82	1.72
2935	L. Kaufman, Lake Charles	8.22	2.37	1.80	12.39	10.59	2.34	2.83	1.68
2936	R. L. Taylor, Tangipahoa	8.22	2.37	1.80	12.39	10.59	2.34	2.83	1.68
2937	J. Frank, Lake Charles	8.22	2.37	1.80	12.39	10.59	2.34	2.83	1.68
2938	Gonzales Bros., New River	8.22	2.37	1.80	12.39	10.59	2.34	2.83	1.68
2939	Chas. Feahney, New Orleans	8.22	2.37	1.80	12.39	10.59	2.34	2.83	1.68
2940	Geo. W. Peyton, Grand Cane, to—								
	A. W. Weber, Mansfield	8.22	2.37	1.80	12.39	10.59	2.34	2.83	1.68
2978	J. R. Abels, Ponchatoula	8.10	2.36	1.87	12.33	10.46	2.33	2.83	1.72
2979	A. Kluchin, Independence	8.10	2.36	1.87	12.33	10.46	2.33	2.83	1.72
2980	J. R. Abels, Ponchatoula	8.10	2.36	1.87	12.33	10.46	2.33	2.83	1.72
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Standard Guano and Chemical Manufacturing Company, New Orleans.									
CHAMPION FARMERS' CHOICE.									
	Guantee	4.00	4.00	....	....	8.00	1.65	....	1.50
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11	A. K. Reichert, Independence	6.49	3.18	1.74	11.41	9.67	1.86	2.26	3.16
33	Simon Grechman, Independence	6.38	3.34	3.27	12.99	9.72	1.85	2.24	3.34
42	F. E. Neelis & Co., Hammond	6.87	2.66	1.80	11.33	9.53	1.68	2.04	1.65
43	J. H. Pack, Lake Charles	6.87	2.66	1.80	11.33	9.53	1.68	2.04	1.65
44	Mrs. W. G. Wilson, Independence	6.87	2.66	1.80	11.33	9.53	1.68	2.04	1.65
45	A. Kluchin, Independence	6.87	2.66	1.80	11.33	9.53	1.68	2.04	1.65
60	J. H. Pack, Lake Charles	6.68	2.91	1.77	11.36	9.59	1.77	2.15	2.40

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
Standard Guano and Chemical Manufacturing Co., New Orleans. CHAMPION FARMERS' CHOICE—Continued.									
100	Settoon Bros., Springfield .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
101	A. Kluchin, Independence .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
102	J. W. Desonge, Natalbany .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
103	Mrs. W. G. Wilson, Independence .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
104	Dolhonde & Co., Independence .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
105	Babington Bros., Ltd., Covington .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
106	D. E. Branch & Co., Covington .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
107	Knight & Co., Covington .....	6.53	3.13	2.52	12.18	9.66	1.81	2.19	2.87
166	Babington Bros., Franklinton .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
167	D. M. Wadsworth & Bro., Covington .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
168	Royals & Magee, Warronton .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
169	J. A. Burres & Co., Covington .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
170	J. A. Burres & Co., Covington .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
171	A. Kluchin, Independence .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
172	M. A. Magee & Co., Zona .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
173	Settoon Bros., Springfield .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
174	E. P. Franklin & Son, Leesville .....	6.70	2.90	2.16	11.76	9.60	1.74	2.11	2.26
228	S. Grechman, Independence .....	6.46	2.78	2.20	11.44	9.24	1.88	2.28	1.81



229	Babington Bros., Ltd., Covington	6.46	2.78	2.20	11.44	9.24	1.88	2.28	1.81
281	Bickham & Son, Bickham	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
282	M. A. Magee & Sons, Covington	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
283	D. E. Branch & Co., Warnerton	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
284	W. R. McKown & Co., Jackson	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
285	E. W. Ott, Mt. Herman	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
286	I. C. Heyman & Sons, Clinton	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
287	H. H. Smith, Covington	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
288	H. J. Sanders, Tangipahoa	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
289	W. R. McKown & Co., Jackson	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
290	J. J. Capdeville, Baton Rouge	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
291	J. E. Bateman & Co., Warnerton	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
292	J. M. Brock & Co., Mt. Herman	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
293	J. J. Capdeville, Baton Rouge	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
294	S. P. Richardson, Mt. Herman	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
295	Babington Bros., Ltd., Franklinton	6.50	2.95	2.36	11.81	9.45	1.85	2.24	2.34
475	E. W. Ott, Mt. Herman	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
476	Jones & Whittaker, Baton Rouge	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
477	I. L. Heyman & Son, Clinton	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
478	W. P. Hutchinson, Tangipahoa	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
480	Millsaps & Co., Ltd., W. Monroe	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
481	H. J. Sanders, Tangipahoa	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
482	Babington Bros., Franklinton	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
484	Bickham & Son, Bickham	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
485	K. P. Day, Clinton	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
487	Jonie Levy, Clinton	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
489	J. E. Varnado & Bro., Mt. Herman	6.60	2.92	2.26	11.78	9.52	1.79	2.17	2.30
561	Burres & Bro., Warnerton	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.						Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available..				
552	J. Frank, Lake Charles .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
553	T. P. Sones, Otis .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
564	W. J. Garland, Haynesville .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
565	Jonie Levy, Clinton .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
566	R. H. Magee, Varnado .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
567	Bickham & Son, Bickham .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
568	D. M. Wadsworth & Bro., Covington .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
569	D. E. Branch & Co., Warronton .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
570	I. L. Heyman & Co., Clinton .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
571	I. E. Phelps, Warronton .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
572	D. Taylor, Laurel Hill .....	6.65	3.35	4.07	14.07	10.00	2.00	2.43	1.95	
576	Babington Bros., Ltd., Covington .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15	
577	Abney & Magee, Mt. Herman .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15	
578	B. L. Sanders, Ethel .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15	
579	Babington Bros., Ltd., Covington .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15	
760	Wm. Atkinson & Bacot Co., Osyka, Miss.....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15	
761	Wm. Atkinson & Bacot Co., Osyka, Miss.....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15	
762	Wm. Atkinson & Bacot Co., Osyka, Miss .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15	

763	J. A. Burres & Co., Mt. Herman .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15
764	Simon Grechman, Independence .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15
765	B. F. Thompson, Ruston .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15
766	H. J. Smith, Covington .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15
767	W. R. McKowen & Co., Jackson .....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15
768	I. N. Varnado, Osyka, Miss. ....	6.56	3.15	3.22	12.93	9.71	1.93	2.34	2.15
769	Babington Bros., Ltd., Franklinton .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
770	J. M. Brock, Mt. Herman .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
771	X. D. Hays, Clinton .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
772	Burres & Co., Warnerton .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
773	B. M. Morrison, Hammond .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
774	J. E. Varnado, Mt. Herman .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
775	J. W. DeSonge, Hammond .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
776	J. J. Allen, Sarepta .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
777	J. A. Burres & Co., Warnerton .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
778	B. L. Sanders, Ethel .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
779	Dudley Bros., Jackson .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
780	Mrs. W. G. Wilson, Independence .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
781	W. R. McKowen & Co., Jackson .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
782	J. E. Crichton, Minden .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
783	F. E. Neelis & Co., Hammond .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
784	J. D. Brock, Brockdale .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
785	X. D. Hays, Clinton .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
786	W. R. McKowen & Co., Jackson .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
787	A. Kluchin, Independence .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
788	Jones & Whittaker, Baton Rouge .....	6.58	3.04	2.74	12.36	9.62	1.86	2.25	2.22
1123	W. R. McKowen & Co., Jackson .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09
1124	H. G. Magee, Warnerton .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..			
1125	B. F. Thompson, Ruston .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09
1126	R. S. Troth, Zachary .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09
1127	W. B. Thompson & Co., New Orleans, for— E. L. Clark, Alabama Landing .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09
1128	W. J. Garland & Son, Haynesville .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09
1129	A. McCranie, Homer .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09
1130	Caldwell & Pollack, Dubach .....	6.62	3.20	3.40	13.22	9.82	1.93	2.34	2.09
1621	H. H. Smith, Covington .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1622	W. J. Garland & Son, Haynesville .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1623	S. P. Richardson, Mt. Herman .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1624	W. R. McKowen & Co., Jackson .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1625	G. B. Denman, Sarepta .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1626	T. J. Mathvein, Zachary .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1627	Mrs. B. Stern, Amite City .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1628	J. J. Willis, Pearl River .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1629	B. L. Sanders, Ethel .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1630	J. J. Veers, Clinton .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1631	Z. A. Reagen, Calhoun .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55

Standard Guano and Chemical Manufacturing Co.,  
New Orleans.  
CHAMPION FARMERS' CHOICE—Continued.



1632	Z. A. Reagen, Calhoun .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1633	W. R. McKowen & Co., Jackson .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1634	W. J. Garland & Son, Haynesville .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1635	Jonie Levy, Clinton .....	7.15	1.50	1.85	10.50	8.65	1.70	2.06	1.55
1809	J. Frank, Lake Charles .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1810	W. W. Worthy, Ethel .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1811	W. J. Garland & Son, Haynesville .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1812	Jones & Whittaker, Baton Rouge .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1813	A. T. Gastrell, Bayou Sara .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1814	E. L. Clark, care W. B. Thompson & Co., N. O. ....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1815	Mrs. B. Stern, Amite City .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1816	H. H. Smith, Covington .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1817	N. B. Brown, Baker .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1818	H. G. Magee & Co., Warnerton .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1819	Lampton Mercantile Co., Magnolia, Miss. ....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1820	J. E. Crichton, Minden .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1821	J. E. Hodges, Haughton .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1822	W. J. Garland & Son, Haynesville .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1823	W. J. Garland & Son, Haynesville .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
1824	Jones & Whittaker, Baton Rouge .....	6.90	2.43	2.96	12.29	9.33	1.85	2.24	1.75
2167	J. J. Willis, Pearl River .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2168	Elijah Thomas, Baton Rouge .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2169	I. L. Heyman & Son, Clinton .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2170	Jonie Levy, Clinton .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2171	J. M. Brock & Co., Mt. Herman .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2172	Babington & Co., Covington .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2173	J. E. Crichton, Minden .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2174	Salem Brick and Lumber Co., New Orleans .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia.....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
2175	H. H. Smith, Covington .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2176	W. J. Garland, Haynesville .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2177	N. G. Neuhauser, Slidell .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2178	Wm. Cook, Zachary .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2179	W. J. Garland & Son, Haynesville .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2180	S. Israel, Clinton .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2181	Millsaps & Co., Ltd., W. Monroe .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2182	Millsaps & Co., Ltd., W. Monroe .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2183	Millsaps & Co., Ltd., W. Monroe .....	6.15	2.02	1.70	9.87	8.17	1.85	2.24	2.60
2273	Millsaps & Co., Ltd., W. Monroe .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2274	Mrs. B. Stern, Amite City .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2275	W. W. Worthy, Ethel .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2276	Jones & Whittaker, Baton Rouge .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2277	S. Israel, Clinton .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2278	Alice Yancy, Wilson .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2279	W. J. Garland & Son, Haynesville .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2280	Lampton Mercantile Co., Magnolia, Miss. ....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07
2281	Chas. Feahney, New Orleans .....	6.65	1.76	1.78	10.19	8.41	1.78	2.16	2.07

Standard Guano and Chemical Manufacturing Co.,  
New Orleans.  
CHAMPION FARMERS' CHOICE—Continued.

2492	Jones & Whittaker, Baton Rouge	6.77	2.60	2.37	11.74	9.37	1.82	2.21	1.91
2791	A. Kluchin, Independence	7.05	3.03	2.50	12.58	10.08	1.68	2.04	2.36
2792	Frank Cloud, Slidell	7.05	3.03	2.50	12.58	10.08	1.68	2.04	2.36
2793	S. Grechman, Independence	7.05	3.03	2.50	12.58	10.08	1.68	2.04	2.36
2794	Mrs. B. Stern, Amite City	7.05	3.03	2.50	12.58	10.08	1.68	2.04	2.36
2795	Mrs. W. G. Wilson, Independence	7.05	3.03	2.50	12.58	10.08	1.68	2.04	2.36
2796	L. S. Kelly, Zachary	7.05	3.03	2.50	12.58	10.08	1.68	2.04	2.36
2797	W. W. Rayford, Zachary	7.05	3.03	2.50	12.58	10.08	1.68	2.04	2.36
2874	A. Kluchin, Independence	6.60	2.53	2.10	11.23	9.13	1.77	2.15	2.48
61	E. R. Hoover & Son, Independence	6.68	2.91	1.77	11.36	9.59	1.77	2.15	2.40
62	Dolhonde & Co., Independence	6.68	2.91	1.77	11.36	9.59	1.77	2.15	2.40
63	F. E. Neelis & Co., Hammond	6.68	2.91	1.77	11.36	9.59	1.77	2.15	2.40
67	Simon Grechman, Independence	6.68	2.91	1.77	11.36	9.59	1.77	2.15	2.40
2957	A. Kluchin, Independence	6.55	2.74	2.23	11.52	9.29	1.81	2.19	2.41
2958	E. Cunie, Clinton	6.55	2.74	2.23	11.52	9.29	1.81	2.19	2.41
2959	A. T. Gastrell, St. Francisville	6.55	2.74	2.23	11.52	9.29	1.81	2.19	2.41
2972	A. Kluchin, Independence	6.90	2.81	2.43	12.14	9.71	1.75	2.12	2.13
2973	A. Kluchin, Independence	6.90	2.81	2.43	12.14	9.71	1.75	2.12	2.13
2974	Aug. Borman, New Orleans	6.90	2.81	2.43	12.14	9.71	1.75	2.12	2.13
Standard Guano and Chemical Mfg. Co., New Orleans									
PRIVATE FORMULA.									
Guarantee not given.									
814	Jno. T. Moore, Schriever	3.50	3.28	1.87	8.65	6.78	5.94	7.21	.70
815	Jno. T. Moore, Schriever	3.50	3.28	1.87	8.65	6.78	5.94	7.21	.70
816	Jno. T. Moore, Schriever	3.32	3.32	1.81	8.45	6.64	6.03	7.32	.75
1193	Milliken & Farwell, New Orleans	6.90	1.96	3.55	12.41	8.86	3.44	4.18	.53

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash .....
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available ..			
	Standard Guano and Chemical Mfg. Co., New Orleans. SPECIAL FORMULA.								
	<i>Guarantee</i> .....	....	....	....	....	2.00	....	7.11	....
1649	Jno. T. Moore Planting Co., Schriever .....	3.00	1.87	1.25	6.12	4.87	6.00	7.29	....
1650	Jno. T. Moore Planting Co., Schriever .....	3.00	1.87	1.25	6.12	4.87	6.00	7.29	....
1651	Jno. T. Moore Planting Co., Schriever .....	3.00	1.87	1.25	6.12	4.87	6.00	7.29	....
1652	Jno. T. Moore Planting Co., Schriever .....	3.00	1.87	1.25	6.12	4.87	6.00	7.29	....
2304	Jno. T. Moore Planting Co., Schriever .....	2.47	2.03	.62	5.12	4.50	6.96	8.45	....
2305	Jno. T. Moore Planting Co., Schriever .....	2.47	2.03	.62	5.12	4.50	6.96	8.45	....
2306	Jno. T. Moore Planting Co., Schriever .....	2.47	2.03	.62	5.12	4.50	6.96	8.45	....
	SPECIAL FORMULA.								
	<i>Guarantee not given.</i>								
1646	McCall Bros. Planting Co., McCall .....	5.41	2.75	1.94	10.10	8.16	4.44	5.38	.78
1647	Milliken & Farwell, New Orleans .....	5.49	2.67	1.97	10.13	8.16	4.48	5.44	.83
1648	Milliken & Farwell, New Orleans .....	5.49	2.67	1.97	10.13	8.16	4.48	5.44	.83
1919	Milliken & Farwell, New Orleans .....	8.25	3.11	2.02	13.38	11.36	5.60	6.80	.45
1920	Milliken & Farwell, New Orleans .....	8.25	3.11	2.02	13.38	11.36	5.60	6.80	.45
1921	S. J. Fenton & Sons, Fenton .....	8.95	2.20	2.67	13.82	11.15	.20	.24	4.04
1922	Milliken & Farwell, New Orleans .....	8.40	3.38	1.87	13.65	11.78	5.45	6.61	.72



1923	Milliken & Farwell, New Orleans .....	8.40	2.96	2.00	13.36	11.36	5.56	6.75	36
1931	McCall Bros. Planting Co., McCall .....	8.13	4.17	1.75	14.05	12.30	5.54	6.73	38
1932	McCall Bros. Planting Co., McCall .....	8.13	4.17	1.75	14.05	12.30	5.54	6.73	38
2268	Jno. T. Moore Planting Co., Schriever .....	3.60	2.50	4.25	10.35	6.10	5.06	6.14	36
2269	Jno. T. Moore Planting Co., Schriever .....	3.60	2.50	4.25	10.35	6.10	5.06	6.14	36
2270	Jno. T. Moore Planting Co., Schriever .....	3.60	2.50	4.25	10.35	6.10	5.06	6.14	36
2271	Jno. T. Moore Planting Co., Schriever .....	3.60	2.50	4.25	10.35	6.10	5.06	6.14	36
2435	Jno. T. Moore Planting Co., Schriever .....	2.30	4.93	4.47	11.70	7.23	6.58	7.98	28
2440	E. McIlhenney's Son, New Iberia .....	3.50	1.53	.95	5.98	5.03	3.40	4.13	4.60
2441	E. McIlhenney's Son, New Iberia .....	3.50	1.53	.95	5.98	5.03	3.40	4.13	4.60
2464	Milliken & Farwell, New Orleans .....	8.53	2.73	.67	11.93	11.26	6.16	7.48	trace
2711	Ellington Planting Co., New Orleans .....	7.75	2.20	1.42	11.37	9.95	4.20	5.10	36
2712	Ellington Planting Co., New Orleans .....	7.75	2.20	1.42	11.37	9.95	4.20	5.10	36
2810	Geo. M. Murrell P. & M. Co., Bayou Goula .....	6.55	3.24	1.07	10.86	9.79	4.37	5.30	50
2824	R. G. Comeaux, Plaquemine .....	5.30	3.32	1.00	9.62	8.62	4.72	5.73	71
2903	Ellington Planting Co., New Orleans .....	6.80	2.23	.94	9.97	9.03	4.14	5.02	36
2914	R. G. Comeaux, Plaquemine .....	5.45	2.05	.56	8.06	7.50	5.87	7.12	84
1918	Jno. M. Gillespie, Hard Times .....	3.95	2.50	1.37	7.82	6.45	5.28	6.41	1.76
<hr/>									
SPECIAL RICE.									
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<i>No guarantee given.</i>									
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1286	S. J. Fenton & Sons, Fenton .....	6.75	3.80	3.25	13.80	10.55	1.82	2.21	1.54
1934	S. J. Fenton & Sons, Fenton .....	8.45	2.93	1.55	12.93	11.38	2.43	2.95	1.10
1935	C. W. Alexander, Gueydan .....	8.45	2.93	1.55	12.93	11.38	2.43	2.95	1.10
1936	Sulphur Mercantile Co., Sulphur .....	8.45	2.93	1.55	12.93	11.38	2.43	2.95	1.10
1937	H. F. Perkins, Sulphur .....	8.45	2.93	1.55	12.93	11.38	2.43	2.95	1.10
2272	Chas. Clarke, Gueydan .....	8.25	3.70	2.12	14.07	11.95	1.65	2.00	1.53

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ...			
	Standard Guano and Chemical Manufacturing Co., New Orleans.	7.00	3.00	....	.....	10.00	2.50	....	2.50
	<i>Guarantee</i> .....								
646	Simineaux Bros., Plattenville .....	8.27	3.56	2.52	14.35	11.83	3.02	3.66	2.73
647	Temple & Landry, Plattenville .....	8.27	3.56	2.52	14.35	11.83	3.02	3.66	2.73
648	Jones & Noland, DeRidder .....	8.27	3.56	2.52	14.35	11.83	3.02	3.66	2.73
649	Wilson Mercantile Co., Wilson .....	8.27	3.56	2.52	14.35	11.83	3.02	3.66	2.73
1013	A. Wilbert's Sons Lumber and Shingle Co., Plaquemine .....	7.12	3.89	2.62	13.63	11.01	3.30	4.01	2.51
1014	Landry & Dugas, Klotzville .....	7.12	3.89	2.62	13.63	11.01	3.30	4.01	2.51
1015	Myrtle Grove Planting Co., New Orleans .....	7.12	3.89	2.62	13.63	11.01	3.30	4.01	2.51
1016	Est. N. Vives, Klotzville .....	7.12	3.89	2.62	13.63	11.01	3.30	4.01	2.51
1017	A. Wilbert's Sons Lumber and Shingle Co., Plaquemine .....	7.12	3.89	2.62	13.63	11.01	3.30	4.01	2.51
1018	L. N. Folse, White Castle .....	7.12	3.89	2.62	13.63	11.01	3.30	4.01	2.51
1019	R. S. Woods & Bro., Schriever .....	7.12	3.89	2.62	13.63	11.01	3.30	4.01	2.51
1355	W. J. Garland & Son, Haynesville .....	7.69	3.73	2.57	13.99	11.42	3.16	3.83	2.62
2358	Est. N. Vives, Assumption .....	8.65	2.25	2.27	13.17	10.90	3.00	3.64	2.81
2359	T. Lanaux, New Orleans, for O. Himel .....	8.65	2.25	2.27	13.17	10.90	3.00	3.64	2.81
2625	A. Levert, Soulouque .....	7.89	3.07	2.45	13.41	10.96	3.15	3.82	2.66



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available..			
	Standard Guano and Chemical Manufacturing Co., New Orleans. MISSISSIPPI HOME GUANO—Continued.								
1138	J. E. Crichton, Minden .....	8.45	3.78	2.05	14.28	12.23	1.65	2.00	2.04
1357	E. E. Kennon, Sibley .....	7.98	4.28	2.26	14.52	12.26	1.67	2.02	2.02
1358	X. D. Hays, Clinton .....	7.98	4.28	2.26	14.52	12.26	1.67	2.02	2.02
1359	S. Israel, Clinton .....	7.98	4.28	2.26	14.52	12.26	1.67	2.02	2.02
1360	J. W. Veers, Clinton .....	7.98	4.28	2.26	14.52	12.26	1.67	2.02	2.02
1724	S. Israel, Clinton .....	7.96	3.92	2.38	14.26	11.88	1.67	2.02	2.01
2314	D. H. Sanders, Amite City .....	7.23	2.14	2.51	11.88	9.37	1.81	2.20	2.10
2315	S. Israel, Clinton .....	7.23	2.14	2.51	11.88	9.37	1.81	2.20	2.10
2316	D. H. Sanders, Amite City .....	7.23	2.14	2.51	11.88	9.37	1.81	2.20	2.10
2317	Mrs. B. Stern, Amite City .....	7.23	2.14	2.51	11.88	9.37	1.81	2.20	2.10
2318	S. Israel, Clinton .....	7.23	2.14	2.51	11.88	9.37	1.81	2.20	2.10
2491	S. Israel, Clinton .....	7.60	3.21	2.38	13.19	10.81	1.74	2.11	2.06
	BLOOD, BONE AND MEAT.								
	<i>Guarantee</i> .....	4.00	4.25	1.00	9.25	8.25	1.70	....	2.00
416	Jno. Tate & Co., Tangipahoa .....	5.80	4.17	1.47	11.44	9.97	2.44	2.96	2.34
417	J. E. Varnado & Bro., Mt. Herman .....	5.80	4.17	1.47	11.44	9.97	2.44	2.96	2.34



639 Bickham & Son, Bickham .....	6.87	3.92	2.73	13.52	10.79	1.89	2.29	2.10
640 Jno. Tate & Co., Tangipahoa .....	6.87	3.92	2.73	13.52	10.79	1.89	2.29	2.10
641 W. P. Hutchinson, Tangipahoa .....	6.87	3.92	2.73	13.52	10.79	1.89	2.29	2.10
642 E. W. Ott, Mt. Herman .....	6.87	3.92	2.73	13.52	10.79	1.89	2.29	2.10
643 D. E. Branch & Co., Warrenton .....	6.87	3.92	2.73	13.52	10.79	1.89	2.29	2.10
644 Jno. Tate & Co., Tangipahoa .....	6.87	3.92	2.73	13.52	10.79	1.89	2.29	2.10
645 Bickham & Son, Bickham .....	6.87	3.92	2.73	13.52	10.79	1.89	2.29	2.10
1020 R. L. Taylor, Tangipahoa .....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1021 J. M. Brock & Co., Mt. Herman .....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1022 B. L. Sanders, Ethel .....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1023 Abney & Magee, Mt. Herman .....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1024 B. L. Sanders, Ethel .....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1025 W. P. Hutchinson, Tangipahoa .....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1026 I. N. Varnado, Osyka, Miss. ....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1027 J. E. Renwick, Monroe .....	6.00	3.49	3.31	12.80	9.49	1.85	2.25	2.40
1150 R. L. Taylor, Tangipahoa .....	5.90	3.83	2.39	12.12	9.73	2.15	2.61	2.37
1476 B. L. Sanders, Ethel .....	6.39	3.86	2.56	12.81	10.25	2.02	2.45	2.24
1477 R. L. Taylor, Tangipahoa .....	6.39	3.86	2.56	12.81	10.25	2.02	2.45	2.24
1478 G. B. Denman, Serapta .....	6.39	3.86	2.56	12.81	10.25	2.02	2.45	2.24
1479 Bickham & Son, Warrenton .....	6.39	3.86	2.56	12.81	10.25	2.02	2.45	2.24
2339 Jas. Rudison, Baton Rouge .....	7.15	4.44	3.56	15.15	11.59	1.70	2.06	2.72
2340 Chas. Feahney, New Orleans .....	7.15	4.44	3.56	15.15	11.59	1.70	2.06	2.72
2489 B. L. Sanders, Ethel .....	6.03	4.13	2.92	13.08	10.16	1.92	2.32	2.55
<b>McCALL'S FORMULA.</b>								
<i>Guarantee</i> .....	3.75	1.25	1.00	6.00	5.00	3.85	....	1.00
592 Tarlton & Delahoussaye, Franklin .....	4.50	3.10	1.60	9.20	7.60	4.09	4.96	1.34

Station No. . . . .	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..				
Standard Guano and Chemical Manufacturing Co., New Orleans. McCALL'S FORMULA—Continued.										
593	S. T. McCordell, Baldwin .....	4.50	3.10	1.60	9.20	7.60	4.09	4.96	1.34	
594	Est. A. J. Leland, Plattenville .....	4.50	3.10	1.60	9.20	7.60	4.09	4.96	1.34	
1011	McCall Bros. Pltg. and Mfg. Co., McCall.....	4.00	2.53	1.50	8.03	6.53	4.45	5.41	1.28	
1012	Geo. M. Marrell Pltg. and Mfg. Co., Bayou Goula. . .	4.00	2.53	1.50	8.03	6.53	4.45	5.41	1.28	
1723	Rodrigue & Thears, Plattenville .....	4.25	2.82	1.55	8.62	7.07	4.24	5.19	1.31	
2352	Underwood & Short, Frankland .....	5.50	2.49	1.68	9.67	7.99	3.68	4.44	1.15	
2353	Tarleton & Delahoussaye, Franklin .....	5.50	2.49	1.68	9.67	7.99	3.68	4.44	1.15	
2450	Holloway & Postell, Plaquemine .....	7.62	2.37	1.62	11.61	9.99	2.15	2.61	2.52	
2451	Holloway & Postell, Plaquemine .....	7.62	2.37	1.62	11.61	9.99	2.15	2.61	2.52	
2452	N. K. Todd, Foster .....	7.62	2.37	1.62	11.61	9.99	2.15	2.61	2.52	
2453	S. T. McCordell, Baldwin .....	7.62	2.37	1.62	11.61	9.99	2.15	2.61	2.52	
2454	Est. E. D. Barton, Donaldsonville .....	7.62	2.37	1.62	11.61	9.99	2.15	2.61	2.52	
2455	R. S. Woods, Schriever .....	7.62	2.37	1.62	11.61	9.99	2.15	2.61	2.52	
2713	C. M. Lefebvre, Plaquemine .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02	
2714	Edward Auderman, St. James .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02	
2715	Jos. Birg, Baldwin .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02	
2716	V. M. Lefebvre, Manchac .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02	
2717	Jos. Birg, Baldwin .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02	

2718	Jos. Birg, Baldwin .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02
2719	Est. F. O. Himel, Welcome .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02
2720	Jos. Birg, Baldwin .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02
2721	Est. A. J. Leland, Plattenville .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02
2722	C. C. Barton, Albemarle .....	5.72	.81	3.42	9.95	6.53	3.73	4.53	2.02
2895	Est. A. J. Leland, Plattenville .....	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2896	O. D. Berwick, Foster .....	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2897	Geo. M. Murrell Ptg. and Mfg. Co., Bayou Goula...	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2898	T. F. McCardell, Baldwin .....	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2899	Mrs. E. D. Burguières, Louisa .....	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2900	Mrs. E. D. Burguières, Louisa .....	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2901	John R. Todd, Franklin .....	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2902	Mrs. E. D. Burguières, Louisa .....	5.27	1.66	.81	7.74	6.93	4.33	5.25	1.05
2904	Mrs. E. D. Burguières, Louisa .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2905	Mrs. J. Lagemann, Baldwin .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2906	A. D. Blanchard, Plattenville .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2907	W. E. Howell, Thibodaux .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2908	Est. A. J. Leland, Plattenville .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2909	Chas. M. Lefebvre, Mark .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2910	C. C. Barton, Albemarle .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2911	Jno. R. Todd, Foster .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2912	O. D. Berwick, Foster .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2913	C. M. Lefebvre, Mark .....	5.35	1.57	.62	7.54	6.92	4.27	5.18	1.94
2934	Jno. W. Pugh, Paulina .....	5.54	1.19	2.02	8.75	6.73	4.00	4.85	1.97

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available...			
	Standard Guano and Chemical Manufacturing Co., New Orleans.								
	VEGETABLE PHOSPHATE.								
	<i>Guarantee</i> .....	4.00	5.00	....	....	9.00	1.65	....	1.50
12	J. S. Park, Lake Charles .....	5.15	3.15	1.64	9.94	8.30	3.38	4.11	3.16
40	J. H. Park, Lake Charles .....	5.47	3.05	1.67	10.19	8.52	3.22	3.91	4.65
41	Thos. C. Glynn, Covington .....	5.47	3.05	1.67	10.19	8.52	3.22	3.91	4.65
66	J. H. Pack, Lake Charles .....	5.31	3.10	1.65	10.06	8.41	3.30	4.00	3.90
246	Hy. Langford, New Orleans .....	5.23	3.13	1.64	10.00	8.36	3.34	4.05	3.53
247	C. D. Otis, Lake Charles .....	5.23	3.13	1.64	10.00	8.36	3.34	4.05	3.53
248	A. C. Young, Tangipahoa .....	5.23	3.13	1.64	10.00	8.36	3.34	4.05	3.53
369	L. Kaufman, Lake Charles .....	6.00	3.49	2.10	11.59	9.49	3.33	4.04	2.68
361	Myles Salt Co., New Orleans .....	6.00	3.49	2.10	11.59	9.49	3.33	4.04	2.68
363	A. Ahten, New Orleans .....	6.00	3.49	2.10	11.59	9.49	3.33	4.04	2.68
447	Jones & Nolan, DeRidder .....	5.66	3.29	1.81	10.82	8.95	3.31	4.01	3.29
2194	Stille & Yarbrough, Robeline .....	6.12	4.46	3.21	15.85	12.58	3.26	3.96	5.81
2195	L. Kaufman, Lake Charles .....	6.12	4.46	3.21	15.85	12.58	3.26	3.96	5.81
2439	Jno. T. Gibbons, New Orleans .....	6.50	3.52	3.22	13.24	10.02	3.48	4.23	6.42
2890	Raymond Crawford, Slidell .....	6.31	3.99	3.25	13.55	10.30	3.37	4.09	6.12
2982	Jno. W. Fisher, Pouchatoula .....	6.40	3.75	3.23	13.38	10.15	3.42	4.16	6.27



VEGETABLE.		4.00	2.00	1.00	7.00	6.00	3.00	....	5.00
<i>Guarantee</i> .....									
1194 L. Kaufman, Lake Charles .....		7.17	1.24	3.32	11.73	8.41	3.30	4.00	5.00
1290 Cary & Humphrey, Jennings .....		6.25	2.13	2.74	11.12	8.38	3.08	3.74	4.41
1917 Hy. Langford, Tangipahoa .....		5.70	3.43	3.22	12.35	9.13	3.50	4.25	7.86
2889 L. Kaufman, Lake Charles .....		6.44	2.33	3.27	12.04	8.77	3.40	4.13	6.43
STANDARD AMMONIATED SOLUBLE GUANO.									
<i>Guarantee</i> .....		4.00	4.00	....	....	8.00	1.65	....	1.50
1933 Dardeau & Coreil, Opelousas .....		7.25	2.63	3.37	13.25	9.88	1.65	2.00	1.68
2892 R. E. Thompson, Wilson .....		7.00	3.89	2.58	13.47	10.89	2.04	2.48	1.84
FRUIT TREE.									
<i>Guarantee</i> .....		....	....	....	15.00	....	2.75	....	3.00
1181 Jas. Prevost, City .....		3.70	8.68	5.87	18.25	12.38	2.68	3.26	3.45
CABBAGE PHOSPHATE.									
<i>Guarantee</i> .....		4.00	5.00	....	....	9.00	1.65	2.00	1.50
37 Green, Shoemaker & Co., Crowley .....		5.70	3.17	1.79	10.66	8.87	3.24	3.95	2.02
38 Thos. C. Glynn, Covington .....		5.70	3.17	1.79	10.66	8.87	3.24	3.95	2.02
39 Jas. Prevost, New Orleans .....		5.70	3.17	1.79	10.66	8.87	3.24	3.95	2.02
139 Green, Shoemaker & Co., Crowley .....		5.88	3.00	2.51	11.39	8.88	3.68	4.47	5.71
147 J. R. Abels, Ponchatoula .....		5.72	3.31	2.19	11.22	9.03	3.64	4.42	5.67

Station No. . . .	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen. . . . .	Ammonia . . . . .	Potash . . . . .	
		Water Sol- uble . . . . .	Reverted. . . . .	Insoluble. . . . .	Total. . . . .	Available . . . . .				
Standard Guano and Chemical Mfg. Co., New Orleans. CABBAGE PHOSPHATE—Continued.										
249	J. R. Abels, Ponchatoula . . . . .	5.71	3.24	1.99	10.94	8.95	3.44	4.18	3.89	
250	A. C. Goodrich, New Orleans . . . . .	5.71	3.24	1.99	10.94	8.95	3.44	4.18	3.89	
2968	J. R. Abels, Ponchatoula . . . . .	5.80	3.15	2.35	11.30	8.95	3.66	4.44	5.69	
2969	Sam J. Levergne, Westlake . . . . .	5.80	3.15	2.35	11.30	8.95	3.66	4.44	5.69	
Virginia-Carolina Chemical Co., Memphis, Tenn. SCOTT'S GOSSYPIMUM PHOSPHO.										
	<i>Guarantee</i> . . . . .	7.00	3.00	2.00	12.00	10.00	1.65	2.00	2.00	
270	F. C. Weist, Amite City . . . . .	11.27	1.85	.64	13.76	13.12	1.90	2.30	2.00	
635	S. B. Baucum & Sims, Haynesville . . . . .	8.70	3.03	2.77	14.50	11.73	2.10	2.55	2.22	
636	S. B. Baucum, Haynesville . . . . .	8.70	3.03	2.77	14.50	11.73	2.10	2.55	2.22	
637	Kinnebrew Drug Co., Homer . . . . .	8.70	3.03	2.77	14.50	11.73	2.10	2.55	2.22	
638	Kinnebrew Drug Co., Homer . . . . .	8.70	3.03	2.77	14.50	11.73	2.10	2.55	2.22	
667	B. Capers, Arcadia . . . . .	8.45	3.78	1.40	13.63	12.23	1.76	2.13	2.48	
668	Dolhonde & Co., Independence . . . . .	8.45	3.78	1.40	13.63	12.23	1.76	2.13	2.48	
669	S. L. Sims, Haynesville . . . . .	8.45	3.78	1.40	13.63	12.23	1.76	2.13	2.48	
997	J. M. Miller Co., Ltd., Minden . . . . .	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24	
998	Selig & Cromwell, Bernice . . . . .	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24	

999	C. W. & O. W. Campbell, Bernice	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1000	J. M. Miller & Co., Ltd, Minden	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1001	Haynes, W. Monroe	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1033	S. B. Baucum, Haynesville	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1034	C. W. & W. O. Campbell, Bienville	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1035	Hicks, Richardson & Co., Ltd., Grand Cane	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1006	S. L. Simms, Haynesville	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1007	S. B. Baucum, Haynesville	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1008	S. B. Baucum, Haynesville	9.86	2.82	1.02	13.70	12.68	1.83	2.22	2.24
1337	B. Capers, Arcadia	9.28	2.92	1.90	14.10	12.20	1.97	2.39	2.23
1338	C. W. Hamner & Co., Gibsland	9.28	2.92	1.90	14.10	12.20	1.97	2.39	2.23
1339	C. W. Hamner & Co., Gibsland	9.28	2.92	1.90	14.10	12.20	1.97	2.39	2.23
1340	Selig & Cromwell, Bernice	9.28	2.92	1.90	14.10	12.20	1.97	2.39	2.23
1341	O. F. Baucum, Spring Hill	9.28	2.92	1.90	14.10	12.20	1.97	2.39	2.23
1906	G. B. Haynes, W. Monroe	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1907	G. B. Haynes, W. Monroe	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1908	C. W. & W. O. Campbell, Bienville	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1909	S. B. Baucum, Haynesville	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1910	B. Capers, Arcadia	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1911	Kinnelbrew Drug Co., Homer	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1912	C. W. & W. O. Campbell, Bienville	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1913	F. C. Weist, Amie City	9.00	2.60	2.90	14.50	11.60	1.75	2.12	2.32
1956	B. Capers, Arcadia	9.43	2.71	1.96	14.10	12.14	1.79	2.17	2.28
1957	B. Capers, Arcadia	9.43	2.71	1.96	14.10	12.14	1.79	2.17	2.28
1958	B. Capers, Arcadia	9.43	2.71	1.96	14.10	12.14	1.79	2.17	2.28
1959	G. B. Haynes, West Monroe	9.43	2.71	1.96	14.10	12.14	1.79	2.17	2.28
1960	B. Capers, Arcadia	9.43	2.71	1.96	14.10	12.14	1.79	2.17	2.28
2658	G. B. Haynes, W. Monroe	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59

Station No. ...	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen. ....	Ammonia .....	Potash. ....
		Water Sol- uble .....	Reverted...	Insoluble...	Total. ....	Available ...			
Virginia-Carolina Chemical Co., Memphis, Tenn. SCOTT'S GOSSYPIUM PHOSPHO—Continued.									
2659	J. L. Oaks, Haynesville .....	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59
2660	Kinnebrew Drug Co., Homer .....	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59
2661	B. Capers, Arcadia .....	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59
2662	S. B. Baucom, Haynesville .....	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59
2663	Kinnebrew Drug Co., Homer .....	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59
2664	Kinnebrew Drug Co., Homer .....	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59
2665	S. B. Baucom, Haynesville .....	8.83	1.76	2.91	13.50	10.59	1.77	2.15	2.59
SCOTT'S STATE STANDARD GUANO.									
	<i>Guarantee</i> .....	7.00	1.00	2.00	10.00	8.00	1.65	2.00	2.00
1192	Jno. T. George, Tangipahoa .....	6.35	3.15	4.05	13.55	9.50	1.87	2.27	2.36
1607	J. L. Baker, Mt. Lebanon .....	8.75	2.25	3.75	14.75	11.00	1.79	2.17	2.03
1761	Anderson & Harrell, Arcadia .....	7.55	2.70	3.90	14.15	10.25	1.83	2.22	2.20
1762	Jno. T. George, Tangipahoa .....	7.55	2.70	3.90	14.15	10.25	1.83	2.22	2.20
1763	F. C. Weist, Amite City .....	7.55	2.70	3.90	14.15	10.25	1.83	2.22	2.20
1764	Bickham & Son, Bickham .....	7.55	2.70	3.90	14.15	10.25	1.83	2.22	2.20
1943	Anderson & Harrell, Arcadia .....	8.75	2.25	3.75	14.75	11.00	1.79	2.17	2.03
2024	Anderson & Harrell, Arcadia .....	6.95	2.92	3.98	13.85	9.87	1.85	2.24	2.28



2837	Anderson & Harrell, Arcadia .....	7.50	2.74	4.78	15.02	10.24	1.74	2.11	2.08
	<b>SCOTT'S MEAL FORMULA.</b>								
	<i>Guantee</i> .....	7.00	3.00	2.00	12.00	10.00	....	1.00	1.00
659	S. B. Baucom, Haynesville .....	8.00	5.88	1.22	15.10	13.88	.96	1.18	.96
1294	S. L. Simmes, Haynesville .....	8.10	3.25	2.40	13.75	11.35	1.87	2.27	2.60
2509	J. L. Oaks, Haynesville .....	8.00	4.62	3.65	16.27	12.62	1.22	1.47	1.24
2710	S. B. Baucom, Haynesville .....	8.00	4.62	3.65	16.27	12.62	1.22	1.47	1.24
	<b>ROYAL VEGETABLE FERTILIZER.</b>								
	<i>Guantee</i> .....	7.00	1.00	2.00	10.00	8.00	3.30	4.00	4.00
267	F. C. Weist, Amite City .....	10.42	2.15	.91	13.48	12.57	3.25	3.95	4.69
663	Dolhonde & Co., Independence .....	9.30	2.07	.63	12.00	11.37	3.75	4.55	5.01
1002	G. B. Haynes, W. Monroe .....	9.86	2.11	.77	12.74	11.97	3.50	4.25	4.85
1914	Bryan Co., Ltd., Edgarily .....	7.95	2.31	2.06	12.32	10.26	3.70	4.49	3.43
1915	Calcasieu Rice and Irrigation Co., Kinder .....	7.95	2.31	2.06	12.32	10.26	3.70	4.49	3.43
	<b>ROYAL FRUIT GROWER.</b>								
	<i>Guantee</i> .....	4.00	1.00	2.00	7.00	5.00	2.47	3.00	8.00
1940	Perkins & Miller Lumber Co., Westlake .....	5.85	1.58	2.60	10.03	7.43	3.55	4.31	5.93

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
	Virginia-Carolina Chemical Co., Memphis, Tenn. ROYAL COTTON BOLL GUANO.								
	<i>Guarantee</i> .....	7.00	1.00	2.00	10.00	8.00	1.65	2.00	2.00
1033	Jno. T. George, Tangipahoa .....	6.62	2.19	4.87	13.68	8.81	1.79	2.18	2.24
1941	Jno. T. George, Tangipahoa .....	6.47	2.34	3.94	12.75	8.81	1.80	2.19	1.76
1942	Bickham & Son, Bickham .....	6.47	2.34	3.94	12.75	8.81	1.80	2.17	1.76
	ROYAL ANIMAL BONE GUANO.								
	<i>Guarantee</i> .....	6.00	3.00	2.00	11.00	9.00	1.65	2.00	1.00
1826	Gavig, Wilson & Co., Baton Rouge .....	9.10	1.55	4.00	14.65	10.65	2.10	2.55	1.50
	ROYAL HIGH GRADE GUANO.								
	<i>Guarantee</i> .....	7.00	3.00	2.00	12.00	10.00	1.65	2.00	2.00
268	F. C. Weist, Amite City .....	8.93	3.01	2.01	13.95	11.94	1.66	2.02	3.10
662	Dolhonde & Co., Independence .....	7.23	3.49	2.55	13.47	10.72	1.84	2.24	2.42
1184	Isadore Mayer, Clinton .....	4.01	7.72	3.15	14.88	11.73	1.78	2.17	2.40
1187	J. R. Abels, Ponchatoula .....	4.01	7.72	3.15	14.88	11.73	1.78	2.17	2.40
1188	Jno. Tate & Co., Tangipahoa .....	4.01	7.72	3.15	14.88	11.73	1.78	2.17	2.40
1222	Geo. J. Reiley, Clinton .....	6.47	5.37	2.58	14.42	11.84	1.72	2.09	2.75

1223	W. Y. Millican & Bro., Zachary .....	6.47	5.37	2.58	14.42	11.84	1.72	2.09	2.75
1224	Jas. Storer, Iowa .....	6.47	5.37	2.58	14.42	11.84	1.72	2.09	2.75
1225	Sulphur Mercantile Co., Sulphur .....	6.47	5.37	2.58	14.42	11.84	1.72	2.09	2.75
1354	Anderson & Harrell, Arcadia .....	6.86	4.43	2.67	13.96	11.29	1.78	2.17	2.58
1705	W. Y. Millican & Bro., Zachary .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1706	Stanley & Gore, Wilson .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1707	Jones P. Carruth, Wilson .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1708	Perkins & Miller Lumber Co., Westlake .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1709	Jones & Whittaker, Baton Rouge .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1710	Lemon & Brown, Ethel .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1711	F. C. Weist, Amite City .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1712	Anderson & Harrell, Arcadia .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
1713	A. D. McFarlain, Jennings .....	5.44	6.07	2.92	14.42	11.51	1.78	2.17	2.49
2283	Stanley & Gore, Wilson .....	8.72	2.48	3.37	14.57	11.20	1.74	2.11	2.40
2284	Jas. Storer, Iowa .....	8.72	2.48	3.37	14.57	11.20	1.74	2.11	2.40
2285	Anderson & Harrell, Arcadia .....	8.72	2.48	3.37	14.57	11.20	1.74	2.11	2.40
2559	Anderson & Harrell, Arcadia .....	6.36	5.10	3.26	14.72	11.46	1.76	2.14	2.40
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ROYAL BLOOD BONE AND POTASH.									
	<i>Guantee</i> .....	7.00	3.00	2.00	12.00	10.00	....	1.00	1.00
664	Kinnebrew Drug Co., Homer .....	7.30	4.20	2.50	14.00	11.50	1.26	1.53	1.57
2657	Kinnebrew Drug Co., Homer .....	9.50	2.97	4.53	17.00	12.47	1.18	1.43	1.00
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ROYAL AMMONIATED BONE GUANO.									
	<i>Guantee</i> .....	....	....	....	....	9.00	....	2.00	1.00
1318	Garig, Wilson & Co., Baton Rouge .....	8.62	2.88	4.77	16.27	11.50	1.72	2.09	1.04

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
	Armour Fertilizer Works, Chicago, Ill. NO. 271.	5.00	2.00	....	....	7.00	1.65	2.00	1.00
1406	Bridges, West & Co., Norwood .....	6.12	3.03	7.00	16.15	9.15	2.06	2.50	1.44
	Swift & Co., Chicago, Ill. SPECIAL.	....	....	....	....	10.00	....	3.00	2.00
1182	L. M. Soniat, Doreyville .....	2.10	12.50	5.90	20.50	14.60	2.62	3.18	2.00
1183	L. M. Soniat, Doreyville .....	2.07	10.35	3.70	16.12	12.42	4.42	5.37	2.17
	Swift & Co., Chicago, Ill. HIGH GRADE TANKAGE.	....	....	....	....	10.00	....	5.00	2.00
2764	L. M. Soniat, Doreyville .....	....	....	2.50	13.25	10.75	4.42	5.36	1.93
	Geo. S. Bartlett, Cincinnati, Ohio. GILEAD PHOSPHATE.	....	....	....	....	8.00	....	3.00	2.00



1190	E. D. Reichert & Co., Roseland .....	5.24	4.32	3.35	12.91	9.56	2.74	3.33	2.22
FERTILIZER.									
501	*Minden Cotton Oil and Ice Co., Minden .....	5.90	2.98	1.47	10.35	8.88	4.15	5.05	.60
502	*Minden Cotton Oil and Ice Co., Minden .....	7.65	3.59	1.72	12.96	11.24	2.89	3.62	.88
503	*Minden Cotton Oil and Ice Co., Minden .....	9.05	2.85	1.97	13.87	11.90	2.39	2.90	.50
1009	*Planters Fertilizer and Mfg. Co., New Orleans.....	5.75	3.00	.50	9.25	8.75	2.62	3.18	2.07
2382	*Milliken & Farwell, New Orleans .....	10.64	1.47	.62	12.73	12.11	5.83	7.08	....
2829	A. A. Maginnis, New Orleans .....	5.65	2.40	.54	8.59	8.05	1.65	2.00	2.10
277	*North Bend Sugar Refining & Mfg. Co., Foster.....	6.90	3.10	1.80	11.80	10.00	5.98	7.26	.80

\* Samples indicated by a star not official.

## ACID PHOSPHATES.

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Acid phosphates or superphosphates contain only one fertilizing constituent of value, viz.: phosphoric acid, but this ingredient is almost invariably present in three forms. Fertilizers of this class are made by treatment of bone ash, bone black, natural phosphates, coprolites, etc., with sulphuric acid. The phosphoric acid in these instances is combined with lime in the proportion of one part of phosphoric acid to three of lime. In this combination it is soluble only in acids. By treatment of the rock with sulphuric acid two parts of the lime are removed, leaving one part of phosphoric acid in combination with one part of lime, and in this form the phosphoric acid is readily soluble in water, and hence usually styled "soluble phosphoric acid." There is also formed simultaneously two parts of sulphate of lime (gypsum), which necessarily constitutes about one-half the weight of every acid phosphate made by this process. In England, where sulphuric acid is cheap, and where only the soluble form of phosphoric acid is recognized, acid phosphates yield upon analysis almost entirely soluble phosphoric acid. In this country, where sulphuric acid is dearer, and the reverted gives equal value with the soluble, acid phosphates contain all three forms of phosphoric acid. The change is brought about in the following manner: At the time of manufacture an amount of sulphuric acid insufficient to render soluble all of the phosphoric acid present is used, thus leaving in the mass some insoluble phosphates. This mass, containing both soluble and insoluble phosphates, is permitted to remain in bulk, and in the course of time a reaction takes place, which results in the formation of reverted phosphates. This reaction may be explained as follows: The phosphoric acid with one part of lime acts upon the phosphoric acid with three parts of lime, forming two molecules of phosphoric acid with two parts of lime. Therefore nearly every American acid phosphate contains all three forms of phosphoric acid. There are high grade acid phosphates on the market which are made by the action of phosphoric acid upon bone, ash and rock phosphates.

The following were analyzed:

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available..
	New Orleans Acid and Fertilizer Co., Gretna, La. BLACK DIAMOND ACID PHOSPHATE.					
	<i>Guarantee</i> .....	10.00	2.00	2.00	14.00	12.00
215	Jones & Pickett, Covington .....	12.06	3.66	3.20	18.92	15.72
356	Jones & Pickett, Covington .....	11.90	3.26	3.15	18.31	15.16
357	I. D. Norwood, Norwood .....	11.90	3.26	3.15	18.31	15.16
358	Jones & Pickett, Covington .....	11.90	3.26	3.15	18.31	15.16
947	L. C. Page, Ringgold .....	11.98	3.46	3.18	18.62	15.44
948	T. C. McKowen, Lindsay .....	11.98	3.46	3.18	18.62	15.44
949	C. W. Hammer, Gillsland .....	11.98	3.46	3.18	18.62	15.44
950	B. Haden, Independence .....	11.98	3.46	3.18	18.62	15.44
951	John Dykers, Independence .....	11.98	3.46	3.18	18.62	15.44
952	W. J. Penton, Independence .....	11.98	3.46	3.18	18.62	15.44
953	Fraenkle & Mayer, Eunice .....	11.98	3.46	3.18	18.62	15.44
954	P. Lowenberg, Homer .....	11.98	3.46	3.18	18.62	15.44
955	J. S. Roberts, DeRidder .....	11.98	3.46	3.18	18.62	15.44
956	D. S. Dean, Geneva .....	11.98	3.46	3.18	18.62	15.44
957	S. C. McKowen, Lindsay .....	11.98	3.46	3.18	18.62	15.44
958	B. F. Appleby, Slaughter .....	11.98	3.46	3.18	18.62	15.44
959	L. T. Fontenberry, Smithsburg, Miss .....	11.98	3.46	3.18	18.62	15.44
960	Jno. W. Grippen, Clinton .....	11.98	3.46	3.18	18.62	15.44

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available...
New Orleans Acid and Fertilizer Co., Gretna, La. BLACK DIAMOND ACID PHOSPHATE—Continued.						
961	J. L. Hester, Monroe .....	11.98	3.46	3.18	18.62	15.44
962	S. G. Sample, Mansfield .....	11.98	3.46	3.18	18.62	15.44
963	C. E. Snell, Mt. Herman .....	11.98	3.46	3.18	18.62	15.44
964	Dr. H. L. Davis, Pleasant Hill .....	11.98	3.46	3.18	18.62	15.44
965	Reed & Tate, Eunice .....	11.98	3.46	3.18	18.62	15.44
1322	J. D. Baughman, Farmerville .....	10.00	3.44	3.66	17.10	13.44
1323	Lorche Dry Goods Co., W. Monroe .....	10.00	3.44	3.66	17.10	13.44
1324	W. T. Baker & Co., Gibsland .....	10.00	3.44	3.66	17.10	13.44
2035	Steamer America, New Orleans .....	10.95	3.35	3.40	17.70	14.30
2036	E. P. Munson, Napoleonville .....	10.95	3.35	3.40	17.70	14.30
2037	A. D. McFarlain, Jennings .....	10.95	3.35	3.40	17.70	14.30
2038	T. C. McKowen, Lindsay .....	10.95	3.35	3.40	17.70	14.30
2039	Paul W. Daniels, Welsh .....	10.95	3.35	3.40	17.70	14.30
2040	W. V. Nicholson, Lafayette .....	10.95	3.35	3.40	17.70	14.30
2041	Fain & Krielow, Jennings .....	10.95	3.35	3.40	17.70	14.30
2042	Paul W. Daniels, Welsh .....	10.95	3.35	3.40	17.70	14.30
2043	E. W. Boyce, Pineville .....	10.95	3.35	3.40	17.70	14.30
2044	S. W. Pipes, Calhoun .....	10.95	3.35	3.40	17.70	14.30
2045	D. B. Dunnington, Tickfaw .....	10.95	3.35	3.40	17.70	14.30



2046	Bickham, Magee & Co., Covington	10.95	3.35	3.40	17.70	14.30
2047	Jones & Pickett, Covington	10.95	3.35	3.40	17.70	14.30
2048	James Curry, St. Joseph	10.95	3.35	3.40	17.70	14.30
2049	T. C. McKowen, Lindsay	10.95	3.35	3.40	17.70	14.30
2050	A. D. McFarlain, Jennings	10.95	3.35	3.40	17.70	14.30
2051	Fain & Kriclow, Jennings	10.95	3.35	3.40	17.70	14.30
2052	J. M. St. Paul, Agent, Jackson	10.95	3.35	3.40	17.70	14.30
2053	Jones & Pickett, Covington	10.95	3.35	3.40	17.70	14.30
2054	Paul W. Daniels, Welsh	10.95	3.35	3.40	17.70	14.30
2055	Lorche Dry Goods Co., W. Monroe	10.95	3.35	3.40	17.70	14.30
2598	Jno. L. Walker, Scotland	12.80	3.03	4.12	19.95	15.83
2599	Meeker Planting Co., Meeker	12.80	3.03	4.12	19.95	15.83
2600	Garg, Wilson & Co., Baton Rouge	12.80	3.03	4.12	19.95	15.83
2601	Ronaldson & Puckett Co., Baton Rouge	11.40	3.24	3.89	18.53	14.64
2862	D. B. Dunnington, Tickfaw	11.73	3.45	3.55	18.73	15.18
2949	Jones & Pickett, Covington	11.73	3.45	3.55	18.73	15.18
2950	M. Jowell & Bro., Columbia	11.73	3.45	3.55	18.73	15.18
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CRESCENT CITY ACID PHOSPHATE.						
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	<i>Guarantee</i>	10.00	2.00	2.00	14.00	12.00
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135	B. M. Morrison, Hammond	13.52	5.41	2.28	21.21	18.93
223	Mrs. W. G. Wilson, Independence	13.77	5.38	2.19	21.34	19.15
263	Mrs. B. Stern, Amite City	13.65	5.39	2.24	21.28	19.04
264	J. H. Fullilove, Keachie	13.65	5.39	2.24	21.28	19.04
314	Reed & Tate, Eunice	13.58	5.40	2.26	21.24	18.98
444	E. W. Ott, Mt. Herman	13.67	5.39	2.23	21.29	19.06
445	Reed & Tate, Eunice	13.67	5.39	2.23	21.29	19.06

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available..
446	W. M. Poland, Bienville .....	13.67	5.39	2.23	21.29	19.06
945	Julius Freyhan & Co., Bayou Sara .....	13.59	5.40	2.25	21.25	18.99
946	E. W. Ott, Mt. Herman .....	13.59	5.40	2.25	21.25	18.99
1066	E. W. Ott, Mt. Herman .....	13.10	3.19	2.96	19.25	16.29
1067	J. Freyhan & Co., Bayou Sara .....	13.10	3.19	2.96	19.25	16.29
1429	C. F. Truxillo, New Iberia .....	12.95	4.61	3.29	20.85	17.56
2087	E. W. Ott, Mt. Herman .....	13.27	5.00	2.27	20.54	18.27
2088	Percy Bros., St. Francisville .....	13.27	5.00	2.27	20.54	18.27
2089	Reed & Tate, Eunice .....	13.27	5.00	2.27	20.54	18.27
2090	J. Freyhan & Co., Bayou Sara .....	13.27	5.00	2.27	20.54	18.27
2091	Reed & Tate, Eunice .....	13.27	5.00	2.27	20.54	18.27
2092	E. W. Ott, Mt. Herman .....	13.27	5.00	2.27	20.54	18.27
2093	O. B. Kirby, Harrisonberg .....	13.27	5.00	2.27	20.54	18.27
2094	E. W. Ott, Mt. Herman .....	13.27	5.00	2.27	20.54	18.27
2095	J. Freyhan & Co., Bayou Sara .....	13.27	5.00	2.27	20.54	18.27
2096	E. W. Ott, Mt. Herman .....	13.27	5.00	2.27	20.54	18.27
2951	Garig, Wilson & Co., Baton Rouge .....	13.34	4.30	2.61	20.25	17.64
2993	Steamer America, New Orleans .....	13.00	3.38	3.30	19.68	16.38
2594	N. S. Dougherty, Baton Rouge .....	13.00	3.38	3.30	19.68	16.38

## HIGH GRADE ACID PHOSPHATE

<i>Guarantee</i> .....	12.00	3.00	2.00	17.00	15.00
140 Belair Co., Belair .....					
141 Morris-Madison Co., New Orleans .....	13.25	3.69	2.62	19.56	16.94
New Orleans Acid and Fertilizer Co., Gretna, La. DISSOLVED BONE.	13.25	3.69	2.62	19.56	16.94
<i>Guarantee</i> .....	12.00	3.00	2.00	17.00	15.00
134 B. M. Morrison, Hammond .....	15.44	2.97	2.76	21.17	18.41
Meridian Fertilizer Factory, Meridian, Miss. SOUTHERN ACID PHOSPHATE.					
<i>Guarantee</i> .....	11.00	1.00	....	....	12.00
650 A. L. Atkins & Son, Arcadia .....	12.80	3.05	2.25	18.10	15.85
1062 J. L. Baker, Mt. Lebanon .....	13.52	3.32	.83	17.67	16.84
1063 W. C. McDonald, Jonesboro .....	13.52	3.32	.83	17.67	16.84
1064 Dillon & Martin, Athens .....	13.52	3.32	.83	17.67	16.84
1219 W. A. Moody, Ethel .....	13.16	3.19	1.04	17.39	16.35
1220 John F. Irvine & Son, Bayou Sara .....	13.16	3.19	1.04	17.39	16.35
1221 Ed. Currie, Clinton .....	13.16	3.19	1.04	17.39	16.35
1352 J. D. Green, Bernice .....	12.98	3.12	1.65	17.75	16.10
1353 A. L. Atkins, Arcadia .....	12.98	3.12	1.65	17.75	16.10
1689 J. L. Baker, Mt. Lebanon .....	13.25	3.22	1.24	17.71	16.47
1690 R. B. Trussell, Simsboro .....	13.25	3.22	1.24	17.71	16.47
1691 E. Schuler, Keachie .....	13.25	3.22	1.24	17.71	16.47
1699 R. B. Trussell & Co., Simsboro .....	13.39	3.27	1.04	17.70	16.66

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC %ACID.				
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available..
1970	Lewis & Co., Ruston .....	13.39	3.27	1.04	17.70	16.66
1971	L. T. Holmes, Longstreet .....	13.39	3.27	1.04	17.70	16.66
1972	Thos. Crichton, Minden .....	13.39	3.27	1.04	17.70	16.66
2151	J. D. Green, Bernice .....	12.50	4.06	1.19	17.75	16.56
2152	A. L. Atkins & Sons, Arcadia .....	12.50	4.06	1.19	17.75	16.56
2674	Thos. Crichton, Minden .....	12.88	3.64	1.22	17.74	16.52
	Hazlehurst Oil Mill and Fertilizer Co., Hazlehurst, Miss. HIGH GRADE ACID PHOSPHATE. <i>Guarantee not given.</i>					
1864	J. H. Ellis, Kentwood .....	16.30	2.68	1.14	20.12	18.98
1865	Jno. Tate & Co., Tangipahoa .....	16.30	2.68	1.14	20.12	18.98
	Shreveport Fertilizer Co., Shreveport, La. <i>Guarantee</i> .....					13.00
611	D. W. Hudson, Haynesville .....	10.10	4.14	1.02	15.26	14.24
	<i>Guarantee</i> .....					14.00



2806	A. T. & G. G. Nelson, Homer	16.25	1.35	2.50	20.10	17.60
	<i>Guarantee</i>	14.00	2.00	2.00	18.00	16.00
1599	Z. T. Davis, Lanesville	16.90	2.46	1.14	20.50	19.36
2208	Joyner Bros., Pelican	15.90	2.86	1.24	20.00	18.76
	Shreveport Fertilizer Co., Shreveport, La.					
	<i>Guarantee</i>	14.00	2.00	2.00	18.00	16.00
2209	Jackson & Kidd, Mansfield	15.90	2.86	1.24	20.00	18.76
2596	H. W. Ogden, Benton	16.00	1.63	2.72	20.35	17.63
2597	A. L. Atkins, Arcadia	16.00	1.63	2.72	20.35	17.63
	<i>Guarantee</i>	15.00	2.00	1.00	18.00	17.00
660	D. W. Hudson & Co., Haynesville	13.00	4.01	.50	17.51	17.01
1069	Baker Bros., Athens	17.42	1.82	.86	20.10	19.24
	<i>Guarantee</i>	10.00	2.00	.....	.....	12.00
1295	T. J. Lawhon, Lawhon	12.65	3.32	2.03	18.00	15.97
1296	T. J. Lawhon, Lawhon	12.65	3.32	2.03	18.00	15.97
	Jackson Fertilizer Co., Jackson, Miss.					
	<i>Guarantee</i>	10.00	2.00	1.00	13.00	12.00
158	E. R. Hoover & Son, Independence	14.58	3.93	1.55	20.06	18.51
159	F. E. Neelis & Co., Hammond	14.58	3.93	1.55	20.06	18.51

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available ..
133	E. L. Watson, Homer .....	14.58	3.93	1.55	20.06	18.51
912	F. D. Reichert & Co., Roseland .....	12.75	3.83	3.32	19.90	16.58
913	E. D. Reichert & Co., Roseland .....	12.75	3.83	3.32	19.90	16.58
914	F. D. Reichert & Co., Roseland .....	12.75	3.83	3.32	19.90	16.58
1057	E. D. Reichert & Co., Roseland .....	13.80	3.60	3.80	21.20	17.40
1231	Bridges, West & Co., Norwood .....	14.19	3.77	2.67	20.63	17.96
1232	Lampton Mercantile Co., Magnolia, Miss. ....	14.19	3.77	2.67	20.63	17.96
1356	Bridges, West & Co., Norwood .....	13.47	3.80	3.00	20.27	17.27
1714	Lampton Mercantile Co., Magnolia, Miss. ....	13.64	3.70	3.40	20.74	17.34
2153	Bridges, West & Co., Norwood .....	16.23	1.52	2.10	19.85	17.65
2092	F. E. Neelis & Co., Hammond .....	16.70	4.24	.58	21.52	20.94
	<i>Guarantee</i> .....	.....	.....	.....	.....	14.00
911	Bridges, West & Co., Norwood .....	12.85	1.95	3.02	17.82	14.80
1131	Lampton Mercantile Co., Magnolia, Miss .....	13.00	3.00	4.12	20.12	16.00

Standard Guano and Chemical Manufacturing Co., New Orleans.  
ACID PHOSPHATE.

	<i>Guarantee</i> .....	10.00	2.00	.....	.....	12.00
7	J. R. Thornton, Alexandria .....	11.42	6.81	.77	19.00	18.23
8	A. M. Rams, Roseland .....	11.42	6.81	.77	19.00	18.23
14	Hy. Hoffman, Abita Springs .....	11.97	6.37	1.06	19.40	18.34
15	J. R. Thornton, Alexandria .....	11.97	6.37	1.06	19.40	18.34
16	Simon Grechman, Independence .....	11.97	6.37	1.06	19.40	18.34
17	A. Kluchin, Independence .....	11.97	6.37	1.06	19.40	18.34
18	F. E. Neelis & Co., Hammond .....	11.97	6.37	1.06	19.40	18.34
56	Simon Grechman, Independence .....	11.70	6.59	.91	19.20	18.29
57	F. E. Neelis & Co., Hammond .....	11.70	6.59	.91	19.20	18.29
83	G. W. Neson, Tickfaw .....	11.56	6.70	.84	19.10	18.26
84	J. Freyhan & Co., Bayou Sara .....	11.56	6.70	.84	19.10	18.26
85	Dolhonde & Co., Independence .....	11.56	6.70	.84	19.10	18.26
251	A. G. Cook, Amite City .....	11.77	6.53	.95	19.25	18.30
252	Conerly Bros., Warnerton .....	11.77	6.53	.95	19.25	18.30
253	M. McDougal, Covington .....	11.77	6.53	.95	19.25	18.30
254	J. J. Capdeville, Baton Rouge .....	11.77	6.53	.95	19.25	18.30
255	E. P. Franklin & Son, Leesville .....	11.77	6.53	.95	19.25	18.30
301	J. E. Varnado & Bro., Mt. Herman .....	11.74	6.56	.93	19.23	18.30
302	J. M. Brook & Co., Mt. Herman .....	11.74	6.56	.93	19.23	18.30
479	Millsaps & Co., Ltd., W. Monroe .....	11.65	6.63	.89	19.17	18.28
483	Lampton Mercantile Co., Magnolia, Miss. ....	11.65	6.63	.89	19.17	18.28
486	D. H. Sanders, Amite City .....	11.65	6.63	.89	19.17	18.28
488	J. E. Varnado & Bro., Mt. Herman .....	11.65	6.63	.89	19.17	18.28

## PHOSPHORIC ACID.

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available...
	Standard Guano and Chemical Manufacturing Co., New Orleans. ACID PHOSPHATE—Continued.					
578	E. W. Ort, Mt. Herman .....	11.65	6.63	.89	19.17	18.28
582	Lampton Mercantile Co., Magnolia, Miss. ....	11.65	6.63	.89	19.17	18.28
583	Jonie Levy, Clinton .....	11.65	6.63	.89	19.17	18.28
584	W. J. Garland, Haynesville .....	11.65	6.63	.89	19.17	18.28
848	Lampton Mercantile Co., Magnolia, Miss. ....	11.71	6.58	.92	19.21	18.29
849	N. S. Dougherty, Baton Rouge .....	11.71	6.58	.92	19.21	18.29
850	J. E. Crichton, Minden .....	11.71	6.58	.92	19.21	18.29
851	I. N. Varnado, Osyka, Miss .....	11.71	6.58	.92	19.21	18.29
852	J. D. Brock, Brockdale .....	11.71	6.58	.92	19.21	18.29
853	C. W. Boyce, Pineville .....	11.71	6.58	.92	19.21	18.29
854	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	11.71	6.58	.92	19.21	18.29
855	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	11.71	6.58	.92	19.21	18.29
856	Alford & Snell, Mt. Herman .....	11.71	6.58	.92	19.21	18.29
857	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	11.71	6.58	.92	19.21	18.29
858	H. Vermeersch, Ethel .....	11.71	6.58	.92	19.21	18.29
898	J. T. Howell, Howell .....	11.71	6.58	.92	19.21	18.29
899	C. M. Barrow, Bayou Sara .....	13.30	5.22	1.10	19.62	18.52
900	J. M. Brock, Mt. Herman .....	13.30	5.22	1.10	19.62	18.52
901	Simon Grechman, Independence .....	13.30	5.22	1.10	19.62	18.52



902	Collins Bros., Warnerton	13.30	5.22	1.10	19.62	18.52
903	Wm. Atkinson & Bacot Co., Osyka, Miss	13.30	5.22	1.10	19.62	18.52
904	Lucky Bros., Bienville	13.30	5.22	1.10	19.62	18.52
905	W. R. Dodson, Baton Rouge	13.30	5.22	1.10	19.62	18.52
906	Wm. Atkinson & Bacot Co., Osyka, Miss	13.30	5.22	1.10	19.62	18.52
907	Wm. Atkinson & Bacot Co., Osyka, Miss	13.30	5.22	1.10	19.62	18.52
908	J. W. Holmes, Warnerton	13.30	5.22	1.10	19.62	18.52
909	Isadore Mayer, Clinton	13.30	5.22	1.10	19.62	18.52
910	Duncan Stewart, Laurel Hill	13.30	5.22	1.10	19.62	18.52
1140	J. E. Crichton, Minden	12.48	5.92	1.00	19.40	18.40
1141	J. M. Brock & Co., Mt. Hernan	12.48	5.92	1.00	19.40	18.40
1142	J. G. Hodges, Haughton	12.48	5.92	1.00	19.40	18.40
1143	C. B. Hamilton, Laurel Hill	12.48	5.92	1.00	19.40	18.40
1144	W. B. Thompson & Co., New Orleans, for— J. D. Crow, Alabama Landing	12.48	5.92	1.00	19.40	18.40
1145	R. L. Taylor, Tangipahoa	12.48	5.92	1.00	19.40	18.40
1146	Hy. Vermeersch, Ethel	12.48	5.92	1.00	19.40	18.40
1147	A. Commander, New Orleans	12.48	5.92	1.00	19.40	18.40
1148	V. M. Jackson, Laurel Hill	12.48	5.92	1.00	19.40	18.40
1480	Isadore Mayer, Clinton	12.89	5.57	1.05	19.51	18.46
1481	E. E. Kennon, Sibley	12.89	5.57	1.05	19.51	18.46
1482	W. R. McKowen & Co., Jackson	12.89	5.57	1.05	19.51	18.46
1483	Dardeau & Coreil, Opelousas	12.89	5.57	1.05	19.51	18.46
1484	G. H. Morse & Sons, Jennings	12.89	5.57	1.05	19.51	18.46
1485	W. R. McKowen & Co., Jackson	12.89	5.57	1.05	19.51	18.46
1486	J. D. Brock, Brockdale	12.89	5.57	1.05	19.51	18.46
1487	J. S. Brock, Brockdale	12.89	5.57	1.05	19.51	18.46
1488	Hy. Vermeersch, Ethel	12.89	5.57	1.05	19.51	18.46

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available ..
	Standard Guano and Chemical Manufacturing Co., New Orleans. ACID PHOSPHATE—Continued.					
1489	G. H. Morse & Son, Jennings .....	12.89	5.57	1.05	19.51	18.46
1490	C. W. Ott, Mt. Herman .....	12.89	5.57	1.05	19.51	18.46
1491	J. E. Varnado, Mt. Herman .....	12.89	5.57	1.05	19.51	18.46
1873	Jones & Whittaker, Baton Rouge .....	13.77	3.41	2.02	19.20	17.18
1874	J. G. Hodges, Houghton .....	13.77	3.41	2.02	19.20	17.18
1875	J. E. Crichton, Minden .....	13.77	3.41	2.02	19.20	17.18
1876	E. W. Ott, Mt. Herman .....	13.77	3.41	2.02	19.20	17.18
1877	Millsaps & Co., Ltd., W. Monroe .....	13.77	3.41	2.02	19.20	17.18
1878	S. Israel, Clinton .....	13.77	3.41	2.02	19.20	17.18
1879	Lampton Mercantile Co., Magnolia, Miss. ....	13.77	3.41	2.02	19.20	17.18
1880	Mrs. B. Stern, Amite City .....	13.77	3.41	2.02	19.20	17.18
1881	J. C. Woodward, Dubberly .....	13.77	3.41	2.02	19.20	17.18
1882	G. H. Morse & Sons, Jennings .....	13.77	3.41	2.02	19.20	17.18
1883	W. R. McKowen & Co., Jackson .....	13.77	3.41	2.02	19.20	17.18
1884	P. M. Turner, care W. B. Thompson & Co., N. O. ....	13.77	3.41	2.02	19.20	17.18
1885	B. T. & J. L. Hopkins, care W. B. Thompson & Co. N. O. ....	13.77	3.41	2.02	19.20	17.18
1886	Dr. G. A. B. Hays, Jackson .....	13.77	3.41	2.02	19.20	17.18
1887	W. J. Garland & Son, Haynesville .....	13.77	3.41	2.02	19.20	17.18
1888	W. W. Worthy, Ethel .....	13.77	3.41	2.02	19.20	17.18

1889	R. L. Taylor, Tangipahoa .....	13.77	3.41	2.02	19.20	17.18
2135	G. H. Morse & Sons, Jennings .....	13.65	1.32	3.93	18.90	14.97
2136	Cary & Humphrey, Jennings .....	13.65	1.32	3.93	18.90	14.97
2137	J. M. Brock & Co., Mt. Herman .....	13.65	1.32	3.93	18.90	14.97
2138	Wm. Atkinson & Bacot Co., Osyka, Miss. ....	13.65	1.32	3.93	18.90	14.97
2139	J. E. Crichton, Minden .....	13.65	1.32	3.93	18.90	14.97
2140	S. C. Curry, Montgomery .....	13.65	1.32	3.93	18.90	14.97
2141	Myer Bros., Monroe, to J. W. Montgomery .....	13.65	1.32	3.93	18.90	14.97
2142	G. H. Morse & Sons, Jennings .....	13.65	1.32	3.93	18.90	14.97
2143	R. T. Y. Loudon, Zachary .....	13.65	1.32	3.93	18.90	14.97
2144	S. Israel, Clinton .....	13.65	1.32	3.93	18.90	14.97
2145	Millsaps & Co., Ltd., W. Monroe .....	13.65	1.32	3.93	18.90	14.97
2146	H. C. Newman, Ltd., N. O., to J. H. Slaughter .....	13.65	1.32	3.93	18.90	14.97
2147	Oak Lawn Sugar Co., Ltd., Irish Bend .....	13.65	1.32	3.93	18.90	14.97
2148	Oak Lawn Sugar Co., Ltd., Irish Bend .....	13.65	1.32	3.93	18.90	14.97
2149	Oak Lawn Sugar Co., Ltd., Irish Bend .....	13.65	1.32	3.93	18.90	14.97
2150	Oak Lawn Sugar Co., Ltd., Irish Bend .....	13.65	1.32	3.93	18.90	14.97
2282	W. W. Worthy, Ethel .....	13.27	3.45	2.49	19.21	16.72
2807	Jones & Whittaker, Baton Rouge .....	14.40	1.91	1.09	17.40	16.31
2808	Chas. Feahney, New Orleans .....	14.40	1.91	1.09	17.40	16.31
2891	A. Kluchin, Independence .....	14.02	1.61	2.51	18.14	15.63
2960	Geo. H. Norwood, Clinton .....	12.88	4.08	1.72	18.68	16.96
2961	Isidor Mayer, Clinton .....	12.88	4.08	1.72	18.68	16.96
2962	Dr. W. Thompson, New Orleans .....	12.88	4.08	1.72	18.68	16.96
2975	Meyer Bros., Monroe .....	13.07	3.76	2.11	18.94	16.83
2976	J. R. Abels, Ponchatoula .....	13.07	3.76	2.11	18.94	16.83
2977	J. R. Thornton, Alexandria .....	13.07	3.76	2.11	18.94	16.83

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available...
	STERN'S DISSOLVED BONE.					
	<i>Guarantee</i> .....	13.00	2.00	1.00	16.00	15.00
	144 G. W. Nesom, Tickfaw .....	11.11	6.63	.73	18.47	17.74
	145 J. R. Abels, Ponchatoula .....	11.11	6.63	.73	18.47	17.74
	DISSOLVED BONE.					
	<i>Guarantee</i> .....	13.00	2.00	1.00	16.00	15.00
3	—, Ponchatoula .....	10.73	6.53	.54	17.80	17.26
19	F. C. Neelis & Co., Hammond .....	10.28	5.34	.95	16.57	15.62
	Virginia-Carolina Chemical Co., Memphis, Tenn.					
	SCOTT'S HIGH GRADE ACID PHOSPHATE.					
	<i>Guarantee</i> .....	12.00	2.00	2.00	16.00	14.00
579	G. B. Baucum, Haynesville .....	14.90	2.72	.38	18.00	17.62
1132	Hicks, Richardson & Co., Ltd., Grand Cane .....	16.60	1.27	.63	18.50	17.87
1863	B. Capers, Arcadia .....	10.47	5.30	3.20	18.97	15.77
2595	Kinnebrew Drug Co., Homer .....	8.40	6.98	3.32	18.60	15.38
2805	Myer Bros., Monroe .....	13.65	2.76	4.04	20.45	16.41
	<i>Guarantee</i> .....	.....	.....	.....	.....	12.00



2602	Kinnebrew Drug Co., Homer .....	14.45	1.86	2.94	19.25	16.31
ROYAL ACID PHOSPHATE.						
	<i>Guarantee</i> .....	10.00	2.00	2.00	14.00	12.00
651	Kinnebrew Drug Co., Homer .....	6.65	7.83	2.27	16.75	14.48
1065	J. M. Miller & Co., Ltd., Minden .....	16.50	2.50	.50	19.50	19.00
1226	Garig, Wilson & Co., Baton Rouge .....	11.58	5.12	1.39	18.09	16.70
	Virginia-Carolina Chemical Co., Memphis, Tenn.					
	ROYAL DISSOLVED BONE.					
	<i>Guarantee</i> .....	12.00	2.00	2.00	16.00	14.00
915	D. W. Pipes, Clinton .....	14.97	.66	3.62	19.25	15.63
1605	Anderson & Harrell, Arcadia .....	11.75	4.96	2.41	19.12	16.71
1866	Anderson & Harrell, Arcadia .....	14.40	3.21	2.44	20.05	17.61
MISCELLANEOUS ACID PHOSPHATES.						
	<i>Guarantee not given.</i>					
500	*Minden Cotton Oil and Ice Co., Minden .....	12.67	2.98	2.52	18.17	15.65
580	*Virginia-Carolina Chemical Co., Memphis, Tenn. ....	10.25	5.00	2.75	18.00	15.25
581	*Virginia-Carolina Chemical Co., Memphis, Tenn. ....	10.57	5.01	2.37	17.95	15.58
1266	*Minden Cotton Oil and Ice Co., Minden .....	13.25	3.10	1.45	17.80	16.35
1660	*Minden Cotton Oil and Ice Co., Minden .....	11.25	5.02	1.85	18.12	16.27
2381	*Minden Cotton Oil and Ice Co., Minden .....	11.60	3.91	3.26	18.77	15.51
2470	*Louisiana Sugar Ex. Station, New Orleans .....	11.37	6.78	3.50	21.65	18.15
2984	*Planters' Fertilizer Mfg. Co., New Orleans .....	11.24	4.90	3.23	19.37	16.14

\* Samples indicated by a star **not** official.

## COTTON SEED MEAL.

This, to the Southern farmer, is the cheapest and most easily obtainable form of nitrogen. Although it has acquired an extensive use as a fertilizer throughout the whole State, it has been exempted from the operations of the fertilizer law by virtue of its employment as a feeding stuff.\*

On account of the presence of quite appreciable quantities of hulls in many samples of meal found upon the market, it is very essential that great care should be observed in the purchase of this article. Hulls can easily be detected by the non-homogeneous appearance of the meal containing them, and also by passing a small quantity of the meal through an ordinary sifter.

The best undamaged meal has a bright yellow color and is dry and pulverulent.

The damaged meal is invariably darker in color, and though rendered unfit for use as a feed stuff, does not lose any of its value for fertilizing purposes.

Frequent requests are made for the comparative values of cotton seed meal, cotton seed and cotton seed hulls. To furnish a basis for comparison, the analyses of average samples of cotton seed, cotton seed meal, and cotton seed hulls are here given and their valuation per ton by the tariff of prices given on page —.

### ANALYSES.

	Nitrogen.	Phosphoric Acid.	Potash.	Value Per Ton.
Cotton seed .....	3.007	1.3	1.2	\$ 9.70
Cotton seed meal .....	7.007	3.	2.	21.80
Cotton seed hulls .....	.707	.25	1.0	2.93

These are values for fertilizing purposes only and have no reference to feeding value.

The average analysis of ashes of cotton seed hulls will show 9.17 phosphoric acid and 23.47 potash. With these comparative values a farmer can decide from prevailing prices of seed, meal and

hulls whether it is expedient to sell his seed and buy meal and hulls or to use them as a fertilizer.

The following analysis of cotton seed meals were made:

\* Note—By amending act published elsewhere in this Bulletin cotton seed meal sold for fertilizing purposes is now subject to provisions of the fertilizer law.

Station No. ....	NAME OF PURCHASER.	Total Phosphoric Acid.....	Nitrogen .....	Ammonia .....	Potash .....
148	J. R. Norman, New Orleans .....	2.98	7.28	8.84	1.72
149	J. R. Norman, New Orleans .....	2.89	7.38	8.96	1.97
153	T. M. Biopat, Lafayette .....	2.59	6.92	8.40	1.73
154	T. M. Biopat, Lafayette .....	2.73	7.67	9.32	1.96
216	J. R. Norman, New Orleans .....	.....	7.72	9.37	.....
296	North Bend Sugar Refining and Mfg. Co., Foster .....	.....	7.05	8.56	.....
409	Taylor & Forstow, Arcadia .....	3.29	7.07	8.58	1.52
410	North Louisiana Ex. Station, Calhoun .....	3.40	7.07	8.58	1.73
414	J. S. Cobb, Spearsville .....	.....	6.04	7.34	.....
498	Barker & Lepine, Lafourche Crossing .....	.....	6.90	8.38	.....
499	Barker & Lepine, Lafourche Crossing .....	.....	6.66	8.08	.....
585	W. B. Robertson, Plaquemine .....	.....	6.72	8.16	.....
586	J. R. Norman, New Orleans .....	.....	7.88	9.57	.....
666	Holloway & Postell, Plaquemine .....	.....	6.86	8.33	.....
1287	Jas. T. Badeaux, Norah .....	.....	6.83	8.29	.....
1663	Barker & Lepine, Lafourche Crossing .....	.....	6.18	7.50	.....
1664	Barker & Lepine, Lafourche Crossing .....	.....	6.94	8.42	.....
1665	Barker & Lepine, Lafourche Crossing .....	.....	6.70	8.13	.....
1666	Barker & Lepine, Lafourche Crossing .....	.....	7.30	8.86	.....
1667	Barker & Lepine, Lafourche Crossing .....	.....	7.20	8.73	.....
1668	Barker & Lepine, Lafourche Crossing .....	.....	7.10	8.62	.....
1669	Barker & Lepine, Lafourche Crossing .....	.....	7.26	8.81	.....



1670	Barker & Lepine, Lafourche Crossing	.....	7.36	8.93	.....
1671	Barker & Lepine, Lafourche Crossing	.....	7.34	8.91	.....
1849	J. N. Pharr, Berwick	.....	7.24	8.79	.....
1950	Godchaux Co., New Orleans	2.54	8.04	9.76	1.91
1951	Trosclair & Robichaux, Thibodaux	.....	6.64	8.06	.....
1952	Trosclair & Robichaux, Thibodaux	.....	6.92	8.40	.....
2056	Dr. Jno. N. Thomas, Quarantine	.....	7.35	8.92	.....
2057	North Bend Sugar Refining and Mfg. Co., Foster	.....	6.95	8.43	.....
2348	Judge Emile Rost, New Orleans	.....	6.64	8.06	.....
2349	A. J. Lagarde & Co., New Orleans	.....	7.78	9.44	.....
2350	Godchaux Co., New Orleans	.....	7.78	9.44	.....
2351	Cinclair Central Factory, Cinclair	.....	6.89	8.36	.....
2442	Hon. Andrew Price, Thibodaux	.....	7.84	9.52	.....
2443	A. Baudry, Mt. Airy	.....	6.52	7.92	.....
2467	Louisiana Sugar Ex. Station, New Orleans	3.26	6.50	7.89	2.03
2567	United Railway and Trading Co., New Orleans	.....	6.65	8.07	.....
2568	United Railway and Trading Co., New Orleans	.....	6.58	8.00	.....
2638	Hon. Andrew Price, Thibodaux	.....	6.94	8.42	.....
2654	Oscar Zenor, Calumet	.....	7.94	9.64	.....
2655	The C. Lagarde Co., Thibodaux	.....	7.72	9.37	.....
2656	The C. Lagarde Co., Thibodaux	.....	7.46	9.03	.....
2832	D. D. Avery, Avery Island	.....	6.89	8.36	.....
2833	W. J. Thompson, Patterson	.....	7.68	9.32	.....
2834	W. J. Thompson, Patterson	.....	7.69	9.33	.....
2852	United Railway and Trading Co., New Orleans	.....	6.62	8.04	.....
2853	United Railway and Trading Co., New Orleans	.....	7.26	8.81	.....
2854	United Railway and Trading Co., New Orleans	.....	7.10	8.62	.....
2894	United Railway and Trading Co., New Orleans	.....	6.78	8.23	.....

Station No. ....	NAME OF PURCHASER.	Total Phosphoric Acid. ....	Nitrogen. ....	Ammonia. ....	Potash. ....
		.....	.....	.....	.....
2932	W. J. Thompson, Patterson	.....	7.11	8.63	.....
2985	Planters' Fertilizer Mfg. Co., New Orleans	.....	7.90	8.74	1.83

NOTE—The above samples of cotton seed meal not official.

## TANKAGE.

The fertilizer has grown rapidly in favor since its introduction into this State, and is each year becoming more largely in demand. It consists chiefly of waste products from slaughter houses, and is a mixture of partly cooked bone and meat, deposited in tanks in which the refuse from the butcher is treated to separate the grease. It ordinarily contains good percentages of both nitrogen and phosphoric acid, the proportions of each, in general, varying almost inversely as the quantity of the other. The relative proportions of nitrogen and phosphoric acid having such wide limits of variation, this class of goods, of course, exhibits a corresponding wide range in value for fertilizing uses. When a considerable excess of bone is present, the proportion of phosphoric acid is largely above that of the nitrogen, while with an excess of meat, the contents of nitrogen becomes large and that of phosphoric acid becomes comparatively small. In the latter case, the action of both ingredients has been found to be more satisfactory. The phosphoric acid in the tankage, being derived principally from bone, is chiefly the insoluble form and its value is largely dependent upon the degree of fineness of division of the particles, a well pulverized sample responding more readily to the needs of the plant. Purchasers of fertilizers of this class should always buy upon a guarantee of definite percentages of nitrogen and phosphoric acid, as their varying composition renders almost indispensable a knowledge of the proportions of their constituents. The bone present should also be in a very finely divided condition.

Since tankage is valuable chiefly for the nitrogen or ammonia, care should be taken in buying this fertilizer to secure the highest percentage of this ingredient. Guarantees of 9 per cent. ammonia and 20 per cent. bone phosphate (which is about equivalent to 9 per cent. phosphoric acid) can be secured from any dealer in this class of fertilizers, and no lower content of nitrogen should be bought from an economical standpoint, since the freight from the Western packing houses to the consumer is the same per ton on all kinds, and the higher the content the cheaper the nitrogen per pound to the consumer when the cost of freight is added.

The following samples were analyzed :

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	ARMOUR & CO.— <i>Guarantee</i> .....		
		Total Phosphoric Acid.....	Nitrogen .....	Ammonia .....
		4.50	1.00	10.00
297	Est. H. C. Minor, Southdown Plantation, Houma .....	6.12	8.30	10.08
298	Est. H. C. Minor, Southdown Plantation, Houma .....	5.88	8.24	10.00
299	Est. H. C. Minor, Hollywood Plantation, Houma .....	6.37	8.48	10.29
300	Est. H. C. Minor, Southdown Plantation, Houma .....	5.24	8.11	9.85
507	Est. H. C. Minor, Southdown Plantation, Houma .....	7.10	8.24	10.00
511	E. Cherbonnier, Helvetia Plantation, Colomb .....	6.15	8.10	9.83
800	Est. H. C. Minor, Southdown Plantation, Houma .....	6.63	8.38	10.18
871	Greenwood Pltg. and Mfg. Co., Greenwood Plt., Gibson .....	5.17	8.98	10.91
874	C. Legarde & Co., Ltd., Leighton Plantation, Thibodaux .....	6.42	8.25	10.02
876	H. C. Minor, Southdown Plantation, Houma .....	6.62	8.54	10.37
1427	Est. H. C. Minor, Houma .....	7.22	8.60	10.44
1500	Est. H. C. Minor, Houma .....	6.55	8.35	10.13
1502	Est. H. C. Minor, Houma .....	5.75	8.54	10.37
1916	L. F. Suthon, Honduras Plantation, Houma .....	6.30	8.00	9.70
2034	Est. H. C. Minor, Southdown Plantation, Houma .....	7.20	8.64	10.49
2456	John D. Seely, Branch Plantation, Thibodaux .....	7.76	8.15	9.89
2457	John D. Seely, Forest Grove Plantation, Thibodaux .....	6.83	8.98	10.90
	<i>Guarantee</i> .....	.....	.....	8.00



872	James Barnett, Shadyside Plantation, Centreville	7.87	7.14	8.67
1270	John S. Seeley, French Plantation, Thibodaux	6.68	7.77	9.44
1271	John S. Seeley, Forest Grove Plantation, Thibodaux	7.33	7.74	9.36
2515	Dubert & Stark Dark Cypress Co., For. Grove Pl., Chacahoula	9.70	6.95	8.44
2516	A. L. Monnot, Providence Plantation, Jeanerette	9.40	7.54	9.15
2517	J. K. G. Kittredge, Ravenwood Plantation, New Orleans	6.75	7.70	9.35
2519	Gold Mine Planting Co., Ltd., Edgard	9.75	7.44	9.03
2520	H. G. Morgan, Frellson Plantation, New Orleans	8.75	7.50	9.10
2521	A. L. Monnot, Vanfrey Plantation, Jeanerette	7.02	7.60	9.22
2762	Judge Emile Rost, Destrahan Plantation, St. Rose	9.50	7.00	8.50
2763	LeBourgeois Bros., Mt. Airy	8.33	7.48	9.08
2769	A. L. Monnot, Providence Plantation, Jeanerette	8.60	7.60	9.22
2817	L. F. Suthon, Honduras Plantation, Houma	10.20	7.40	8.98
2822	W. J. Behan, Alhambra Plantation, White Castle	7.90	7.56	9.18
2843	Dubert & Stark Brown Cyp. Co., For. Grove Pl., Chacahoula	9.62	7.15	8.68
2848	Capt. B. Cousins, Oak Point Plantation, Jesuit Bend	8.42	7.34	8.91
2927	Dugas & LeBlanc, Westfield Plantation, Painscourtville	8.75	7.51	9.12
2473	Barrow & LeBlanc, Pecan Plantation, Plaquemine	11.70	6.82	8.28
SWIFT & CO.—Guarantee		11.45	.....	7.00
49	J. N. Pharr, Avoca Plantation, Berwick, La.	11.28	5.45	6.61
53	Oscar Zenor, Riverside Plantation, Patterson	10.94	5.82	7.07
55	J. N. Pharr, Oakley Plantation, Berwick	10.59	5.87	7.12
68	J. N. Pharr, Glen-Orange Plantation, Berwick	11.11	5.67	6.89
69	J. N. Pharr, Aleda Plantation, Berwick	11.01	5.60	6.80
70	Oscar Zenor, Avelon Plantation, Calumet	11.12	5.66	6.87
75	E. & J. Kock, Belle Alliance Plantation, Belle Alliance	14.72	6.38	7.75

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Total Phosphoric Acid.....	Nitrogen .....	Ammonia .....
	SWIFT & CO.—Guarantee .....	11.45	.....	7.00
76	J. N. Pharr, Fairview Plantation, Berwick .....	17.42	5.64	6.85
77	J. N. Pharr, Fairview Plantation, Berwick .....	11.67	5.43	6.60
79	Barrow & LeBlanc, Pecan Plantation, Plaquemine .....	16.74	5.98	7.26
80	J. N. Pharr, Glenwild Plantation, Berwick .....	17.50	5.66	6.87
81	J. N. Pharr, Orange Grove Plantation, Berwick .....	15.74	5.83	7.08
82	Foster & Bentz, Alice "C" Plantation, Franklin .....	12.04	5.24	6.36
116	J. N. Pharr, Fairview Plantation, Berwick .....	14.78	6.61	8.02
117	J. N. Pharr, Glenwild Plantation, Berwick .....	16.69	6.09	7.40
118	J. N. Pharr, Sorrel Plantation, Berwick .....	14.90	6.44	7.82
150	J. N. Pharr, Orange Grove Plantation, Berwick .....	14.75	6.33	7.68
151	J. N. Pharr, Lakeview Plantation, Berwick .....	15.65	5.91	7.17
152	J. N. Pharr, Sorrel Plantation, Berwick .....	15.42	6.33	7.68
591	Mrs. W. B. Ratliff, Locust Grove Plantation, Napoleonville .....	16.10	5.55	6.74
837	E. L. Monot, Elmfield Plantation, Bertie .....	15.95	6.30	7.65
839	Libermuth & Israel, Lauderdale .....	13.25	5.81	7.05
918	Clarance Himel, Minnie Plantation, Lauderdale .....	13.75	5.50	6.66
1507	G. M. Murrell Ptg. Co., Tally Ho Plantation, Bayou Goula .....	14.00	5.84	7.09
1844	Clarance Himel, Minnie Plantation, Lauderdale .....	13.50	5.88	7.14
1845	Libermuth & Israel, Salisburg Plantation, Lauderdale .....	13.90	5.38	6.53
2002	Mrs. W. B. Ratliff, Locust Grove Plantation, Napoleonville .....	11.60	6.36	7.72

2061	Clarence Himel, Minnie Plantation, Lauderdale	13.77	5.90	7.15
2518	Dugas & LeBlanc, Westfield Plantation, Paincourtville	11.70	5.80	7.04
2744	Libermuth & Israel, Winchester Plantation, Lauderdale	13.35	6.64	8.07
2745	Libermuth & Israel, Winchester Plantation, Lauderdale	13.35	6.64	8.07
2747	Libermuth & Israel, Winchester Plantation, Lauderdale	13.35	6.64	8.07
2760	Libermuth & Israel, Lauderdale Plantation, Lauderdale	12.90	5.80	7.04
2761	Libermuth & Israel, Lauderdale Plantation, Lauderdale	12.90	5.80	7.04
2924	Dugas & LeBlanc, Westfield Plantation, Paincourtville	13.00	6.21	7.54
	<i>Guarantee</i>	9.18	.....	7.00
1537	Dugas & LeBlanc, Paincourtville	13.80	5.48	6.65
	<i>Guarantee</i>	13.75	.....	7.00
51	Oakley Plantation, Albemarle	19.23	5.39	6.55
	SWIFT & CO.— <i>Guarantee</i>	9.16	.....	8.00
54	Clarence C. Barton, Little Texas Plantation, Albemarle	14.37	6.85	8.31
52	John D. Shaffer, Ardayne Plantation, Ellendale	14.92	6.69	8.13
72	H. Shelby Sanders, Bayside Plantation, Jeanerette	10.79	6.46	7.84
497	Myrtle Grove Planting Co., Ltd., Myrtle Grove	12.34	6.66	8.08
504	Myrtle Grove Planting Co., Ltd., Myrtle Grove	13.00	7.03	8.54
519	Dugas & Landry, Bayou Goula	11.35	6.40	7.77
588	E. & J. Kock, Belle Alliance Plantation, Belle Alliance	12.70	6.23	7.56
590	E. & J. Kock, Belle Alliance Plantation, Belle Alliance	11.75	6.21	7.54
605	E. & J. Kock, Belle Alliance	10.23	6.33	7.68

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	SWIFT & Co.—Continued.		
		Total Phosphoric Acid.....	Nitrogen.....	Ammonia.....
862	R. W. Cocke, Rebecca Plantation, Ellendale .....	11.55	7.20	8.74
867	Miles Planting Co., Armant Plantation, New Orleans .....	10.60	6.94	8.42
868	Miles Planting Co., Armant Plantation, New Orleans .....	10.60	6.94	8.42
869	Miles Planting Co., Armant Plantation, New Orleans .....	10.60	6.94	8.42
870	Miles Planting Co., Armant Plantation, New Orleans .....	10.60	6.94	8.42
879	L. F. Suthon, Honduras Plantation, Houma .....	9.22	7.31	8.87
885	Edw. McCullom, Ellendale Plantation, Ellendale .....	11.43	6.50	7.89
888	Guion & Munson, Trinity Plantation, Napoleonville .....	12.21	6.63	8.04
891	Miles Planting Co., New Hope Plantation, New Orleans .....	12.03	6.08	7.38
942	E. P. Munson, Glenwood Plantation, Napoleonville .....	11.72	6.23	7.57
984	Jno. B. Todd, South Bend Plantation, Foster .....	12.07	6.61	8.02
1437	Adeline Sugar Factory Co., Ltd., Adeline .....	10.00	6.75	8.20
1438	Myrtle Grove Planting Co., Ltd., New Orleans .....	12.30	6.59	8.00
1470	Leon Godechaux Co., Elm Hall Plantation, New Orleans .....	10.10	6.86	8.33
1506	E. P. Munson, Glenwood Plantation, Napoleonville .....	11.90	7.07	8.58
1538	Myrtle Grove Planting Co., Alliance Plantation, New Orleans .....	13.95	6.60	8.00
1543	E. & J. Kock, Belle Alliance Plantation, Belle Alliance .....	10.41	6.38	7.75
1576	E. P. Munson, Glenwood Plantation, Napoleonville .....	12.13	6.43	7.81
1577	Dugas & Landry, Natabany Plantation, Bayou Goula .....	11.90	6.30	7.65
1720	Chas. Baucheau, Julius Plantation, Napoleonville .....	11.25	6.64	8.06



1807	Schmidt & Zeigler, San Francisco Plantation, New Orleans	10.30	6.72	8.16
1808	Schmidt & Zeigler, San Francisco Plantation, New Orleans	10.30	6.72	8.16
2003	Leon Godechaux Co., Ltd., Upper Ten Plantation, New Orleans	10.15	6.65	8.07
2004	James A. Ware, Belle Grove Plantation, White Castle	9.75	7.23	8.77
2005	H. A. Munson, Criola Plantation, Napoleonville	11.50	6.78	8.23
2006	Leon Godechaux Co., Ltd., Utopia Plantation, New Orleans	10.12	6.73	8.17
2007	Willwood Planting and Refining Co., Waggaman	10.67	6.90	8.38
2009	Miles Planting and Manufacturing Co., Conway Plantation, New Orleans	12.97	7.10	8.62
2010	Leon Godechaux Co., Ltd., Raceland Plantation, New Orleans	9.52	6.74	8.18
2026	Willwood Planting and Refining Co., Waggaman	10.63	6.88	8.35
2064	Willwood Planting and Refining Co., Waggaman	10.82	6.70	8.14
2125	McCullom & Cocke, Cedar Grove Plantation, Ellen lale	10.90	7.26	8.81
2127	Leon Godechaux Co., Mary Plantation, New Orleans	10.12	6.82	8.28
2128	Q. D. Berwick, Johnson Plantation, Foster	12.80	7.00	8.50
2164	Judge Emile Rost, New Orleans	11.45	6.16	7.48
2166	E. T. Dugas, Guildire Plantation, Belle Rose	8.71	6.93	8.41
2196	Louis Kramer, Francis Plantation, Franklin	11.75	6.28	7.62
2328	Miles Planting and Manufacturing Co., Monroe Plantation, New Orleans	13.75	6.80	8.25
2329	Leon Godechaux Co., Reserve Plantation, New Orleans	10.20	7.04	8.55
2330	Miles Planting & Manufacturing Co., Clark Plantation, New Orleans	13.35	7.04	8.55
2331	Miles Planting and Manufacturing Co., Orange Grove Plantation, New Orleans	12.95	7.40	8.99
2333	South Side Planting Co., New Orleans	12.75	7.00	8.50
2334	Miles Planting and Manufacturing Co., Riverton Plantation, New Orleans	12.67	7.10	8.62
2335	Miles Planting and Manufacturing Co., Riverton Plantation, New Orleans	12.67	7.10	8.62
2336	Miles Planting and Manufacturing Co., Conway Plantation, New Orleans	13.75	6.90	8.38
2346	Miles Planting and Manufacturing Co., Armant Plantation, New Orleans	11.93	6.76	8.22
2383	South Side Planting Co., New Orleans	8.87	7.44	9.03
2480	Milliken & Farwell, Seardsdale Plantation, New Orleans	10.33	7.01	8.51

## NAME OF MANUFACTURER, BRAND AND PURCHASER.

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	SWIFT & Co.—Continued.			
		Total Phosphoric Acid.....	Nitrogen.....	Ammonia.....	
2501	Myrtle Grove Planting Co., Ltd., Deer Range Plantation, New Orleans	12.10	6.93	8.41	
2502	B. Lemann & Bro., Souvenir Plantation, Donaldsonville	10.60	6.94	8.43	
2503	B. Lemann & Bro., Peyavin Plantation, Donaldsonville	10.50	6.98	8.47	
2504	Leon Godchaux Co., Foley Plantation, New Orleans	10.50	7.23	8.78	
2522	J. R. Hymel, Hymelia Plantation, Killona	12.17	7.46	9.06	
2523	Myrtle Grove Planting Co., Alliance Plantation, New Orleans	13.30	6.85	8.31	
2524	Myrtle Grove Planting Co., Myrtle Grove Plantation, New Orleans	13.12	7.18	8.72	
2531	Leon Godchaux Co., Madewood Plantation, New Orleans	11.07	7.20	8.74	
2532	F. & J. Koch, Belle Alliance Plantation, Belle Alliance	8.55	7.16	9.42	
2573	F. & J. Koch, Belle Alliance Plantation, Belle Alliance	13.35	7.32	8.88	
2574	Milliken & Farwell, Belle Chase Plantation, New Orleans	12.05	7.40	8.99	
2575	F. & J. Koch, Belle Alliance Plantation, Belle Alliance	11.70	7.24	8.79	
2584	Milliken & Farwell, Belle Chase Plantation, New Orleans	11.55	7.50	9.11	
2610	Myrtle Grove Planting Co., Junior Plantation, Myrtle Grove, La.	12.80	6.43	7.80	
2618	E. W. Burbanks, New Orleans	10.45	6.33	7.62	
2735	T. J. Henderson, Delona Plantation, New Orleans	11.80	7.01	8.51	
2738	Adeline Sugar Factory Co., Adeline	11.42	6.62	8.04	
2741	Leon Godchaux Co., Diamond Plantation, New Orleans	9.47	7.32	8.88	
2746	B. Lemann & Bro., (F. Waguespack, Sport Plantation) Donaldsonville	9.52	6.87	8.34	
2752	Southside Planting Co., New Orleans	9.96	7.38	8.96	

2756	Leon Godchaux Co., Ltd. (Edw. Sarpy & Bro. Plantation), New Orleans	10.20	6.80	8.25
2757	Craugnard Bros., Bousicour Plantation, St. James	10.68	7.70	9.35
2758	Craugnard Bros., Bousicour Plantation, St. James	11.50	7.70	9.35
2759	E. J. Caire & Co., Columbia Pantation, Edgard	12.00	7.62	9.25
2765	Adeline Sugar Factory, Adeline	13.20	6.07	7.37
2766	Adeline Sugar Factory, Adeline	12.50	6.27	7.61
2770	Adeline Sugar Factory, Adeline	11.35	6.28	7.62
2818	Adeline Sugar Factory, Adeline	10.30	7.60	9.23
2825	Adeline Sugar Factory, Adeline	14.60	6.16	7.48
2838	Dugas & LeBlanc, Paincourtville	10.30	6.80	8.25
2839	Adeline Sugar Factory, Adeline	12.22	7.10	8.62
2840	Adeline Sugar Factory, Adeline	12.30	7.50	9.10
2841	Adeline Sugar Factory, Adeline	11.75	7.74	9.39
2842	Adeline Sugar Factory, Adeline	12.12	7.28	8.84
2944	Southside Planting Co., New Orleans	8.65	6.79	8.24
SWIFT & CO— <i>Guarantee</i>		6.87	....	9.00
515	Walter I. Barton, Riverside Plantation, Donaldsonville	6.34	7.95	9.65
819	W. W. & J. A. Ventress, Magnolia Plantation, Sunshine	7.70	7.77	9.44
834	McCall & Legendre, McManor Plantation, McCall	7.92	7.84	9.52
841	Leon Godchaux Co., Ltd., Reserve Plantation, New Orleans	8.50	7.60	9.23
841	Leon Godchaux Co., Ltd., Belle Point Plantation, New Orleans	8.25	7.60	9.23
843	Leon Godchaux Co., Ltd., Diamond Plantation, New Orleans	7.38	7.42	9.00
863	J. J. Shaffer, Magnolia Plantation, Minerva	10.20	7.50	9.11
878	E. D. White, Brousseau Plantation, Thibodaux	9.45	7.45	9.05
889	D. Montet & Co., Amelia Plantation, Albemarle	9.50	7.04	8.55
1179	Abby & Highland Planting Co., Thibodaux	8.37	7.45	9.05

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	SWIFT & Co.—Continued.		
		Total Phosphoric Acid.....	Nitrogen .....	Ammonia .....
1285	O. D. Berwick, Johnson Plantation, Foster .....	10.35	7.16	8.69
1336	N. K. Todd, Garrett Plantation, Foster .....	8.62	7.18	8.72
1436	J. J. Shaffer, Magnolia Plantation, Minerva .....	8.12	7.46	9.06
1462	E. W. Burlbank, Avon Plantation, New Orleans .....	8.87	7.84	9.52
1463	J. D. Shaffer, Ardoyne Plantation, Ellendale .....	8.95	7.90	9.59
1464	Crescent Farm Planting Association, Houma .....	9.00	7.43	9.02
1469	J. J. Shaffer, Magnolia Plantation, Minerva .....	9.26	7.60	9.21
1471	Robert C. Martin, Jr., Albemarle Plantation, Albemarle .....	8.90	7.62	9.24
1504	McCall & Legendre, McManor Plantation, McCall .....	8.63	7.51	9.12
1800	Robert C. Martin, Albemarle .....	9.10	7.00	8.50
2000	A. Klotz, Star Plantation, Klotzville .....	7.25	7.50	9.11
2011	Crescent Farm Planting Co., Houma .....	7.22	8.10	9.83
2025	Crescent Farm Planting Co., Houma .....	8.35	7.80	9.47
2030	N. K. Todd, Agent, Garrall Plantation, Foster .....	7.62	7.49	9.09
2033	Crescent Farm Planting Co., Houma .....	7.90	7.60	9.23
2058	Crescent Farm Planting Co., Houma .....	7.85	8.14	9.88
2060	Louis Kramer, Francis Plantation, Franklin .....	10.20	7.48	9.08
2062	Crescent Farm Planting Co., Houma .....	8.60	8.08	9.81
2124	J. J. Shaffer, Magnolia Plantation, Minerva .....	8.97	7.17	8.70
2126	J. J. Shaffer, diverted to John T. Moore Planting Co., Schriever .....	8.82	7.60	9.23



2162	J. J. Shaffer, Magnolia Plantation, Minerva .....	9.37	7.40	9.00
2398	John D. Shaffer, Ardoyne Plantation, Ellendale.....	11.00	7.88	9.57
2410	John D. Shaffer, Ardoyne Plantation, Ellendale.....	11.30	7.01	8.51
2475	D. Montet, Albemarle Plantation, Albemarle.....	8.45	7.46	9.06
2476	Ed. White, Brousseau Plantation, Thibodaux.....	8.60	7.02	9.52
2478	Leon Godechaux Co., Madewood Plantation, New Orleans .....	9.60	7.96	9.66
2505	Leon Godechaux Co., Foley Plantation, New Orleans .....	10.07	7.52	9.13
2508	Walter I. Barton, Riverside Plantation, Donaldsonville .....	8.46	7.90	9.59
2509	Walter I. Barton, Riverside Plantation, Donaldsonville .....	8.10	7.67	9.31
2510	Leon Godechaux Co., Elm Hall Plantation, New Orleans .....	10.79	7.75	9.41
2511	Jos. R. Hymel, Hymelia Plantation, Killona .....	9.23	8.02	9.74
2512	Guion & Munson, Trinity Plantation, Napoleonville .....	8.42	7.42	9.01
2513	Walter I. Barton, Riverside Plantation, Donaldsonville .....	9.03	7.64	9.27
2514	Leon Godechaux Co., Elm Hall Plantation, New Orleans .....	8.62	7.62	9.25
2560	Levert Burguires & Co., Forest Grove Plantation, New Orleans .....	8.50	7.75	9.41
2569	E. H. Barton, St. Emma Plantation, Barton .....	12.00	7.90	9.59
2570	E. H. Barton, St. Emma Plantation, Barton .....	12.52	7.66	9.30
2576	Leon Godechaux Co., Madewood Plantation, New Orleans .....	12.20	7.42	9.01
2580	United R. R. and Trading Co., St. Mary Plantation, New Orleans .....	9.63	8.24	10.00
2736	Levert Burguires & Co., Delona Plantation, New Orleans .....	10.50	8.00	9.71
2755	T. J. Henderson, Delona Plantation, New Orleans.....	10.55	7.41	9.00
2788	Leon Godechaux Co., Belle Point Plantation, New Orleans .....	9.88	7.58	9.20
2789	Leon Godechaux Co., Reserve Plantation, New Orleans .....	9.88	7.58	9.20
2790	Leon Godechaux Co., Reserve Plantation, New Orleans .....	9.88	7.58	9.20
2819	E. W. Burbank, Avon Plantation, New Orleans.....	12.43	7.68	9.32
2820	Levert Burguires & Co., Tally Ho Plantation, New Orleans .....	9.95	7.64	9.28
2821	E. W. Burbank, Avon Plantation, New Orleans.....	12.70	7.72	9.37
2826	United Railway and Trading Co., Orange Grove Plantation, New Orleans .....	14.05	7.19	8.73

## NAME OF MANUFACTURER, BRAND AND PURCHASER.

Station No. ....		Total Phosphoric Acid.....	Nitrogen.....	Ammonia ... ..
	SWIFT & CO. (Continued.)— <i>Guarantee</i> .....	6.87	.....	9.00
2827	United Railway and Trading Co., Promised Land Plantation, New Orleans .....	14.05	7.19	8.73
2847	Leon Godehaux Co., Ltd., Raceland Plantation, New Orleans .....	10.85	8.00	9.71
2928	Dehorn & Prejean, Lula Plantation, Donaldsonville .....	9.82	6.98	8.47
2933	G. M. Murrell P. and M. Co., Tally Ho Plantation, Bayou Goula .....	10.12	6.41	7.78
	<i>Guarantee</i> .....	8.36	.....	9.00
813	United Railway and Trading Co., Orange Grove Plantation, New Orleans .....	10.00	7.04	8.55
842	Mrs. Mary Jacobshagen, Union Plantation, Union .....	8.25	7.50	9.11
873	Poydras Planting Co., Cottage Farm Plantation, New Orleans .....	9.22	7.42	9.01
1468	Poydras Planting Co., New Orleans .....	8.65	7.80	9.46
1835	Mrs. Mary Jacobshagen, Union .....	9.55	7.75	9.40
2481	United Railway and Trading Co., Magnolia Plantation, New Orleans .....	9.77	7.66	9.29
2482	United Railway and Trading Co., Orange Grove Plantation, New Orleans .....	8.60	7.57	9.18
2506	United Railway and Trading Co., Estopinal Plantation, New Orleans .....	9.20	7.57	9.19
2507	United Railway and Trading Co., St. Mary Plantation, New Orleans .....	9.85	7.76	9.42
	<i>Guarantee</i> .....	8.66	.....	9.00
1806	Miles Planting Co., Riverton Plantation, New Orleans .....	8.80	7.53	9.16
1842	Miles Planting Co., Burnside Plantation, New Orleans .....	8.95	7.44	9.02
1846	Miles Planting Co., Monroe Plantation, New Orleans .....	9.82	7.31	8.87
1859	Miles Planting Co., Orange Grove Plantation, New Orleans .....	10.37	7.33	8.90

1860	Miles Planting Co., Conway Plantation, New Orleans .....	6.85	7.50	9.18
2578	United Railway and Trading Co., Contrary Plantation, New Orleans .....	10.85	8.00	9.71
2579	United Railway and Trading Co., Kenilworth Plantation, New Orleans .....	8.98	7.62	9.25
2581	United Railway and Trading Co., Florissant Plantation, New Orleans .....	8.70	7.42	9.01
2582	United Railway and Trading Co., Olivier Plantation, New Orleans .....	13.23	7.42	9.01
2583	United Railway and Trading Co., Olivier Plantation, New Orleans .....	8.45	7.60	9.23
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	SWIFT & CO.— <i>Guantee</i> .....	6.87	....	10.00
490	C. B. Maginnis, Ashland Plantation, Houma .....	7.60	8.46	10.27
491	Chas. B. Maginnis, Ashland Plantation, Houma .....	8.23	8.24	10.00
492	Caillouet & Maginnis, Cane Brake Plantation, Houma .....	7.28	8.65	10.51
493	C. B. Maginnis, Ashland Plantation, Houma .....	7.56	8.28	10.06
494	C. B. Maginnis, Ashland Plantation, Houma .....	7.88	8.68	10.54
495	Lower Terrebonne Refinery, Lacashe Plantation, Houma .....	7.87	8.45	10.27
496	H. Shelly Sanders, Bayside Plantation, Jeanerette .....	8.67	8.48	10.30
505	B. & E. B. Lapice, Lauderdale .....	6.25	8.30	10.07
506	E. Roger, Thibodaux .....	9.17	8.26	10.02
508	Crescent Farm Planting Co., Houma .....	7.95	8.24	10.00
509	David Levy, Island Cuba Plantation, New Orleans .....	9.65	8.35	10.14
510	W. E. Howell, Waverly Plantation, Thibodaux .....	7.75	8.48	10.29
511	Trosclair & Robichaux, Enterprise Plantation, Thibodaux .....	8.15	8.40	10.20
512	Lower Terrebonne Refinery Co., Houma .....	7.50	8.56	10.40
513	C. B. Maginnis, Ashland Plantation, Houma .....	7.23	8.52	10.34
514	Caillouet & Maginnis, Cane Brake Plantation, Houma .....	7.52	8.26	10.03
516	C. B. Maginnis, Woodlawn Plantation, Houma .....	6.75	8.60	10.44
517	Trosclair & Robichaux, L. T. Plantation, Thibodaux .....	7.08	8.41	10.21
518	C. B. Maginnis, Woodlawn Plantation, Houma .....	6.50	9.00	10.93

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	SWIFT & Co.—Continued.			
		Total Phosphoric Acid.....	Nitrogen .....	Ammonia ... ..	
520	C. B. Maginnis, Woodlawn Plantation, Houma .....	8.61	7.81	9.48	
521	C. C. Barton, Little Texas Plantation, Albemarle.....	7.25	7.92	9.61	
522	C. B. Maginnis, Aragon Plantation, Houma .....	7.62	7.73	9.39	
523	Trosclair & Robichaux, Trial Plantation, Thibodaux .....	7.89	8.37	10.16	
524	Oaklev Planting Co., Albemarle .....	8.03	8.46	10.27	
525	C. B. Maginnis, Ashland Plantation, Houma .....	7.18	8.25	10.01	
526	C. B. Maginnis, Ashland Plantation, Houma .....	7.21	8.80	10.68	
527	C. B. Maginnis, Woodlawn Plantation, Houma .....	5.58	8.40	10.20	
528	C. B. Maginnis, Ranch Plantation, Houma .....	7.81	8.56	10.39	
529	Lower Terrebonne Refinery, Lacashe Plantation, Houma .....	7.60	8.33	10.12	
534	Lower Terrebonne Refinery, Sarah Plantation, Houma .....	8.00	8.26	10.03	
535	Nichols & Henderson, Ridgefield Plantation, Thibodaux .....	7.40	8.05	9.77	
587	Caillouet & Maginnis, Cedar Grove Plantation, Houma .....	8.15	8.36	10.15	
589	Caillouet & Maginnis, Cedar Grove Plantation, Houma .....	7.90	8.24	10.00	
606	C. B. Maginnis, Ranch Plantation, Houma .....	8.23	7.85	9.53	
607	C. B. Maginnis, Aragon Plantation, Houma .....	7.75	7.85	9.53	
608	Trosclair & Robichaux, Laurel Grove Plantation, Thibodaux .....	7.64	8.05	9.77	
609	C. B. Maginnis, Woodlawn Plantation, Houma .....	6.10	7.97	9.69	
817	E. V. Weems, Chetwood Plantation, Lecompte .....	6.87	8.27	10.04	
835	Chas. F. Champagne, Bourg .....	9.00	8.51	10.33	



838	Geo. B. Reuss, Belle Helene Plantation, Hohen Solms .....	7.47	8.34	10.12
861	Roger & Robichaux, Coulon Plantation, Thibodaux .....	7.31	8.28	10.06
864	Ernest Roger, Boudreaux Plantation, Thibodaux .....	6.90	8.48	10.30
865	Chas. B. Maginnis, Ashland Plantation, Houma .....	7.25	8.76	10.64
866	Ozine Naquin, St. Bernard Plantation, Thibodaux .....	9.15	8.34	10.12
875	E. Roger, Home Cottage Plantation, Thibodaux .....	7.32	8.28	10.05
877	Trosclair & Robichaux, Laurel Grove Plantation, Thibodaux .....	8.17	8.26	10.02
880	Oscar Zenor, Riverside Plantation, Patterson .....	7.32	8.40	10.20
881	E. Roger, Greenwood Plantation, Thibodaux .....	7.25	8.26	10.02
882	Crescent Farm Planting Co., Houma (Shipped to J. D. Shaffer) .....	8.65	8.26	10.02
883	C. B. Maginnis, Woodlawn Plantation, Houma .....	8.17	8.33	10.11
884	Lower Terrebonne Refinery, Houma .....	7.87	8.50	10.32
887	H. J. Sanders, Luckland Plantation, Patterson .....	7.25	8.34	10.12
890	Crescent Farm Planting Co., Crescent Farm Plantation, Houma .....	8.61	8.02	9.73
892	Crescent Farm Planting Co., Houma .....	7.92	7.86	9.54
917	Louis Bush's Sons, Presquil Plantation, New Orleans .....	8.17	8.02	9.73
919	Oscar Zenor, Moro Plantation, Calumet .....	9.30	7.88	9.56
983	David Levy, Isle of Cuba Plantation, New Orleans .....	9.25	8.24	10.00
985	S. N. Swenson & Sons, North Bend Plantation, New York, N. Y. ....	6.87	8.40	10.20
986	S. N. Swenson & Sons, North Bend Plantation, New York, N. Y. ....	6.82	8.25	10.01
1100	Oscar Zenor, Avelon Plantation, Calumet .....	7.90	8.28	10.05
1101	E. Roger, Greenwood Plantation, Thibodaux .....	8.00	8.14	9.88
1149	Mary Planting Co., Killona .....	7.00	7.86	9.54
1173	C. B. Maginnis, Aragon Plantation, Houma .....	7.30	8.33	10.10
1174	C. B. Maginnis, Woodlawn Plantation, Houma .....	7.62	8.42	10.22
1175	C. B. Maginnis, Woodlawn Plantation, Houma .....	6.87	8.51	10.33
1176	C. B. Maginnis, Aragon Plantation, Houma .....	7.95	8.51	10.33
1177	C. B. Maginnis, Woodlawn Plantation, Houma .....	7.90	8.51	10.33

## NAME OF MANUFACTURER, BRAND AND PURCHASER.

## SWIFT &amp; Co.—Continued.

Station No. ....		Total Phosphoric Acid.....	Nitrogen.....	Ammonia.....
1178	C. B. Maginnis, Ranch Plantation, Houma .....	6.87	8.68	10.54
1180	Foster & Bentz, "Alice C" Plantation, Franklin.....	9.40	8.30	10.07
1272	Lower Terrebonne Planting and Manufacturing Co., Sarah Plantation, Houma .....	8.55	8.96	10.85
1273	Leveret Burquieres & Co., Argyle Plantation, New Orleans .....	8.80	8.60	10.43
1274	Lower Terrebonne Refining and Manufacturing Co., Lucashi Plantation, Houma ..	8.15	8.33	10.11
1275	Caillouet & Maginnis, Cane Brake Plantation, Houma .....	7.90	8.57	10.41
1313	E. Roger, Greenwood Plantation, Thibodaux .....	7.75	8.30	10.04
1334	Gross & Webre, Laurel Ridge Plantation, Labadieville .....	9.17	8.13	9.87
1335	Caillouet & Maginnis, Cedar Grove Plantation, Houma .....	9.00	7.87	9.56
1426	Magnolia Sugar and Railroad Co., Concession Plantation, Laurence .....	7.87	8.25	10.01
1428	C. B. Maginnis, Ashland Plantation, Houma .....	8.02	8.26	10.03
1439	Lower Terrebonne Refinery, Sarah Plantation, Houma .....	7.75	8.50	10.32
1440	C. B. Maginnis, Aragon Plantation, Houma .....	7.43	8.24	10.00
1460	C. B. Maginnis, Woodlawn Plantation, Houma .....	6.87	8.74	10.61
1461	C. B. Maginnis, Ranch Plantation, Houma .....	8.37	8.52	10.34
1465	C. B. Maginnis, Ashland Plantation, Houma .....	6.97	9.10	11.05
1472	W. W. Pugh, Hmalya Plantation, Berie .....	7.93	8.28	10.04
1497	David Levy, Isle of Cuba Plantation, New Orleans.....	11.00	7.72	9.37
1498	Est. J. M. Burguières, Incz Plantation, Cypremort.....	10.00	8.11	9.85
1499	David Levy, Isle of Cuba Plantation, New Orleans.....	10.40	7.91	9.61

1501	Geo. B. Reuss, Germania Plantation, Hohen Solms.....	6.93	8.26	10.02
1503	C. B. Maginnis, Ashland Plantation, Houma.....	7.80	8.48	10.30
1539	Est. J. M. Búrguieres, Cypremort Plantation, Cypremort.....	8.20	8.14	9.87
1540	C. B. Maginnis, Ashland Plantation, Houma.....	9.62	8.00	9.70
1541	David Levy, Isle of Cuba Plantation, New Orleans.....	10.82	8.19	9.83
1542	John D. Shaffer, Ardoyne Plantation, Ellendale.....	10.25	7.90	9.58
1544	Maurice Laundry, St. Evela Plantation, Plattenville.....	6.66	8.25	10.01
1546	W. W. Pugh, Woodlawn Plantation, Bertie.....	8.15	8.38	10.16
1574	Est. J. M. Búrguieres, Cypremort.....	9.50	8.14	9.88
1575	Geo. B. Reuss, Allemania Plantation, Hohen Solms.....	7.12	8.12	9.86
1600	David Levy, Isle of Cuba Plantation, New Orleans.....	11.02	7.89	9.58
1659	C. B. Maginnis, Sarah Plantation, Houma.....	8.24	8.10	9.82
1718	C. B. Maginnis, Aragon Plantation, Houma.....	8.85	8.54	10.37
1801	W. E. Howell, Waverly Plantation, Thibodaux.....	8.05	8.19	9.94
1802	Trosclair & Robichaux Co., Ltd., Laurel Grove Plantation, Thibodaux.....	6.89	8.09	9.82
1803	Roger & Robichaux, Coulon Plantation, Thibodaux.....	7.45	8.26	10.02
1804	Oscar Zenor, Avalon Plantation, Calumet.....	7.05	8.26	10.02
1805	Oscar Zenor, Avalon Plantation, Calumet.....	6.85	8.24	10.00
1836	Trosclair & Robichaux, Trial Plantation, Thibodaux.....	8.35	8.00	9.71
1837	Mary Planting Co., Killona.....	8.85	8.14	9.88
1838	A. & P. V. Bran, Providence Plantation, Killona.....	7.25	7.73	9.38
1839	C. B. Maginnis, Ranch Plantation, Houma.....	7.50	8.50	10.32
1840	C. B. Maginnis, Woodlawn Plantation, Houma.....	9.75	7.73	9.38
1843	C. B. Maginnis, Ashland Plantation, Houma.....	7.22	8.44	10.25
1861	B. & E. B. LaPice, Lauderdale.....	9.90	7.63	9.26
1862	B. & E. B. LaPice, Lauderdale.....	9.90	7.63	9.26
1890	Trosclair & Robichaux, L. T. Plantation, Thibodaux.....	8.50	7.98	9.69
1891	Trosclair & Robichaux, Enterprise Plantation, Thibodaux.....	7.75	8.07	9.80

## NAME OF MANUFACTURER, BRAND AND PURCHASER.

Station No. ....		Total Phosphoric Acid.....	Nitrogen .....	Ammonia ... ..
SWIFT & Co.—Continued.				
1892	Jno. W. Pugh, St. Elmo Plantation, Paulina .....	6.89	8.10	9.83
2001	Leon Seiguriet, Cedar Grove Plantation, Labadieville .....	9.35	8.40	10.21
2008	B. & E. B. LaPice, Lauderdale Plantation, Lauderdale .....	7.14	8.24	10.00
2012	C. B. Maginnis, Ranch Plantation, Houma .....	10.27	8.60	10.44
2027	McCollum & Coeke, Cedar Grove Plantation, Ellendale .....	6.90	8.43	10.23
2028	Cambon & Champagne, Klondyke Plantation, Bourg .....	7.50	8.25	10.01
2029	B. & E. B. LaPice, Lauderdale .....	7.47	8.24	10.00
2039	Oscar Zenor, Riverside Plantation, Calumet .....	8.10	8.56	10.39
2063	Lower Terrebonne Refining Co., Point Farm Plantation, Houma .....	10.87	8.24	10.00
2122	E. Roger, Boudreaux Plantation, Thibodaux .....	6.00	8.30	10.08
2123	David Levy, Isle of Cuba Plantation, New Orleans .....	7.42	8.12	9.86
2129	Louis Bush's Sons, Presquil Plantation, New Orleans .....	9.10	8.60	10.44
2130	J. J. Shaffer, Magnolia Plantation, Minerva .....	7.17	8.46	10.27
2131	Louis Kramer, Francis Plantation, Franklin .....	9.10	8.16	9.91
2132	Est. J. M. Burguières, Crawford Plantation, Louisa .....	12.30	7.42	9.01
2133	Emile Legendre, Ashton Plantation, New Orleans .....	10.57	7.53	9.14
2134	A. & P. V. Bran, Providence Plantation, Killona .....	6.20	8.28	10.05
2163	E. H. Barton, St. Emma Plantation, Barton .....	6.17	8.04	9.76
2165	C. C. Barton, Little Texas Plantation, Albemarle .....	7.40	8.18	9.93
2332	J. L. Ory & Co., Woodlawn Plantation, LaPlace .....	9.52	8.25	10.01



2337	Jules J. Jacob, Uncle Sam Plantation, Convent	7.38	8.60	10.44
2338	John B. Lyon, Riverside Plantation, Chicago, Ill.	7.88	8.40	10.19
2347	H. J. Sanders, Luckland Plantation, Patterson	7.18	8.48	10.29
2384	Jules J. Jacob, Uncle Sam Plantation, Convent	9.77	7.93	9.63
2393	J. B. Lyons, Riverside Plantation, Chicago, Ill.	11.08	8.24	10.00
2394	Lever Burguières & Co., Helvetia Plantation, New Orleans	8.67	8.16	9.90
2395	Lever Burguières & Co., Helvetia Plantation, New Orleans	8.67	8.16	9.90
2396	Lever Burguières & Co., Helvetia Plantation, New Orleans	8.67	8.16	9.90
2397	H. J. Sanders, Luckland Plantation, Patterson	7.75	8.24	10.00
2411	Lower Terrebonne Refining and Manufacturing Co., J. D. Brown's Place, Houma	6.15	8.14	9.88
2412	David Levy, Isle of Cuba Plantation, New Orleans	7.68	8.16	9.91
2413	W. E. Howell, Waverly Plantation, Thibodaux	8.43	8.14	9.88
2438	Jules J. Jacob, Uncle Sam Plantation, Convent	5.82	8.60	10.44
2471	Harry L. Laws, Grandwood Plantation, New Orleans	10.35	8.27	10.04
2474	Nicholls & Henderson, Ridgfield Plantation, Thibodaux	7.27	8.32	10.10
2483	Magnolia Sugar and Railroad Co., Woodlawn Plantation, Lawrence	10.12	8.29	10.06
2484	Magnolia Sugar and Railroad Co., Woodlawn Plantation, Lawrence	10.12	8.29	10.06
2485	C. C. Barton, Little Texas Plantation, Abbeville	8.93	8.62	10.46
2486	Andrew Price, Acadia Plantation, Thibodaux	8.53	8.45	10.29
2487	Oakley Planting Co., Ltd., Abbeville	7.25	8.59	10.42
2488	Andrew Price, Acadia Plantation, Thibodaux	9.07	8.38	10.17
2577	Gross & Webre, Laurel Ridge Plantation, Labadieville	8.75	8.70	10.56
2586	Ernest Roger, Thibodaux	7.20	8.24	10.00
2587	Andrew Price, Acadia Plantation, Thibodaux	6.87	8.00	9.71
2588	Magnolia Sugar and Railroad Co., Magnolia Plantation, Lawrence	9.80	8.09	9.82
2589	Magnolia Sugar and Railroad Co., Magnolia Plantation, Lawrence	9.80	8.09	9.82
2590	Andrew Price, Acadia Plantation, Thibodaux	7.00	8.00	9.71
2591	Andrew Price, Acadia Plantation, Thibodaux	6.95	8.05	9.77

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	SWIFT & Co.—Continued.			Total Phosphoric Acid.....	Nitrogen.....	Ammonia.....
2614	Magnolia Sugar and Railroad Co., Concession Plantation, Lawrence .....				10.75	7.90	9.59
2754	Magnolia Sugar and Railroad Co., Concession Plantation, Lawrence .....				10.95	7.73	9.38
2828	Louis Bush's Sons, Point Plantation, New Orleans.....				9.12	7.93	9.63
2843	Magnolia Sugar and Railroad Co., Lawrence .....				8.17	8.74	10.61
2846	Magnolia Sugar and Railroad Co., Lawrence .....				8.17	8.74	10.61
2925	Claussen, Metz & Bell, Maryland Plantation, Foster .....				7.32	8.08	9.81
2926	H. Shelby Sanders, Bayside Plantation, Jeanerette.....				9.02	8.76	10.63
SWIFT & CO.— <i>Guarantee</i> .....							
886	Miles Planting Co., New Hope Plantation, New Orleans .....				10.09	.....	8.00
893	Miles Planting Co., Burnside Plantation, New Orleans .....				13.71	6.07	7.36
987	Miles Planting Co., Burnside Plantation, New Orleans .....				10.87	5.88	7.14
1435	Miles Planting Co., New Hope Plantation, New Orleans .....				11.30	6.72	8.16
1717	Miles Planting Co., Monroe Plantation, New Orleans .....				10.15	6.69	8.12
1719	Miles Planting Co., Riverton Plantation, New Orleans .....				11.90	6.80	8.26
1721	Miles Planting Co., Burnside Plantation, New Orleans .....				10.70	7.03	8.53
1798	Miles Planting Co., Conway Plantation, New Orleans .....				10.87	6.92	8.40
1799	Miles Planting Co., Orange Grove Plantation, New Orleans .....				11.13	6.78	8.23
2031	Miles Planting Co., Armant Plantation, New Orleans .....				9.80	6.84	8.20
2032	Miles Planting Co., Armant Plantation, New Orleans .....				12.13	6.81	8.27
					12.13	6.81	8.27

2730	Miles Planting Co., St. James Plantation, New Orleans	10.50	7.20	8.74
2731	Miles Planting Co., St. James Plantation, New Orleans	10.50	7.20	8.74
2732	Miles Planting Co., St. James Plantation, New Orleans	10.50	7.20	8.74
2742	Miles Planting Co., St. James Plantation, New Orleans	10.10	7.28	8.84
2743	Miles Planting Co., St. James Plantation, New Orleans	10.10	7.28	8.84
	<i>Guarantee</i>	13.74	....	6.00
2733	Gramercy Sugar Co., R. O. Pond Plantation, New Orleans	17.77	5.49	6.67
2734	Gramercy Sugar Co., T. L. Minnet Plantation, New Orleans	16.50	5.93	7.19
2750	Gramercy Sugar Co., Hester Plantation, New Orleans	16.32	5.07	6.15
2751	Gramercy Sugar Co., Golden Grove Plantation, New Orleans	16.80	5.05	6.12
2767	Gramercy Sugar Co., Golden Grove Plantation, New Orleans	15.85	5.40	6.55
2768	Gramercy Sugar Co., Hester Plantation, New Orleans	13.40	5.18	6.29
2816	Gramercy Sugar Co., Mt. Houmas Plantation, New Orleans	16.40	5.44	6.61
	<i>Guarantee</i>	6.87	....	11.00
1829	Mrs. W. B. Ratliff, Locust Grove Plantation, Napoleonville	7.43	9.30	11.29
	<i>Guarantee</i>	4.59	....	11.00
576	Mrs. W. B. Ratliff, Locust Grove Plantation, Napoleonville	5.67	8.90	10.80
	CUDAHY PACKING CO.— <i>Guarantee</i>	....	....	6.00
50	David Levy, Isle of Cuba Plantation, Schriever	18.84	4.49	5.46

Station No.....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Total Phosphoric Acid.....	Nitrogen.....	Ammonia....
CUDAHY PACKING CO.—Continued.				
1215	David Levy, Isle of Cuba Plantation, Schriever .....	18.51	4.94	6.00
1216	Argyle Planting and Manufacturing Co., Houma.....	16.35	5.77	7.00
1430	G. M. Murrell Planting Co., Tally Ho Pntation, Bayou Goula .....	18.80	5.04	6.12
1467	Argyle Planting and Manufacturing Co. Houma.....	17.25	5.42	6.57
2749	Gramercy Sugar Co., Golden Grove Plantation, New Orleans .....	15.32	5.74	6.97
2849	Gramercy Sugar Co., Golden Grove Plantation, New Orleans .....	17.50	5.13	6.23
2922	Gramercy Sugar Co., Mt. Houmas Plantation, New Orleans .....	14.80	5.22	6.34
2923	Gramercy Sugar Co., Mt. Houmas Plantation, New Orleans .....	14.62	5.28	6.41
2943	Gramercy Sugar Co., Hester Plantation, New Orleans .....	18.00	5.24	6.36
	STANDARD GUANO & CHEMICAL MFG. CO., New Orleans, La.— <i>Guarantee</i> ....	.....	....	9.00
2996	J. Steckler Seed Co., New Orleans .....	9.50	8.93	10.84
	FORT WORTH PACKING CO., Fort Worth, Texas.— <i>Guarantee</i> .....	10.00	....	8.00
74	H. J. Sanders, Luckland Plantation .....	13.85	6.41	7.79
78	E. P. Munson, Glenwood Plantation .....	13.31	6.44	7.82
	DARLING & CO., Chicago Ill.— <i>Guarantee</i> .....	8.25	....	8.00



818	B. Lemann & Bro., Palo Alto Plantation	10.17	7.00	8.50
836	B. Lemann & Bro., Peytavin Plantation	10.42	6.83	8.29
1466	B. Lemann & Bro., Peytavin Plantation	9.80	6.76	8.19
1505	B. Lemann & Bro., Palo Alto Plantation	10.75	6.82	8.28
MISCELLANEOUS TANKAGES.				
	*C. B. Maginnis, Houma	8.22	8.06	9.78
1533	*United Railway and Trading Co., New Orleans	10.05	6.88	8.34
1534	*United Railway and Trading Co., New Orleans	10.02	7.14	8.67
1535	*United Railway and Trading Co., New Orleans	9.95	6.98	8.46
1536	*United Railway and Trading Co., New Orleans	10.02	7.12	8.63
2461	*Louisiana Sugar Experiment Station, New Orleans	7.42	8.60	10.54
2585	*Judge Emile Rost, St. Rose	9.18	7.25	8.80
2830	*Cambon Bros. Houma	7.32	7.95	9.65
2831	*Cambon Bros. Houma	9.63	8.36	10.15

\* NOTE—Samples indicated by a star not official.

### BONE MEAL.

Bone pulverized to a greater or less degree of fineness are sold as "Bone Meal", "Bone Dust," "Ground Bone," etc., and are extensively used in some countries for fertilizing purposes. They have, as yet, acquired but little favor in the South, and but few brands were on the market this season. As their utility depends largely upon the state of division of their particles, both a mechanical and chemical examination are necessary in determining their value.

In addition to the phosphoric acid found in bone black and bone oil, ground bone contains a good part of nitrogen derived from the gelatinous matter present in the raw substance.

The following were analyzed:

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Total Phosphoric Acid.....	Nitrogen.....	Ammonia.....
	Standard Guano and Chemical Manufacturing Co., New Orleans, La. PURE RAW GROUND BONE.	18.50	2.50	...
	<i>Guano</i> .....			
5	J. R. Abels, Ponchatoula .....	24.68	4.00	4.86
6	C. W. Reams, Roseland .....	24.68	4.00	4.86
20	Mrs. W. G. Wilson, Independence .....	20.51	4.00	4.86
21	Simon Grechman, Independence .....	20.51	4.00	4.86
22	A. Kluchin, Independence .....	20.51	4.00	4.86
23	F. C. Neelis & Co., Hammond .....	20.51	4.00	4.86
24	F. C. Neelis & Co., Hammond .....	20.51	4.00	4.86
25	H. Hoffman, Abita Springs .....	20.51	4.00	4.86
86	Knight & Co., Covington .....	23.21	3.70	4.50
87	D. M. Wadsworth & Co., Covington .....	23.21	3.70	4.50
88	D. E. Branch & Co., Covington .....	23.21	3.70	4.50
89	Babington Bros., Franklinton .....	23.21	3.70	4.50
90	Mrs. B. Stern, Amite City .....	23.21	3.70	4.50
91	G. T. Bodeau, Hammond .....	23.21	3.70	4.50
92	J. W. Desonge, Natchitoches .....	23.21	3.70	4.50
93	O. P. Thomas, Covington .....	23.21	3.70	4.50
94	Dolhonde & Co., Independence .....	23.21	3.70	4.50
95	A. Kluchin, Independence .....	23.21	3.70	4.50

96	A. Kluchin, Independence	23.21	3.70	4.50
97	J. R. Abels, Ponchatoula	23.21	3.70	4.50
98	D. H. Sanders, Amite City	23.21	3.70	4.50
99	Settoon Bros., Springfield	23.21	3.70	4.50
126	Dolhonde & Co., Independence	20.71	4.06	4.94
127	L. R. Baham, Independence	20.71	4.06	4.94
128	Santo Delio, Independence	20.71	4.06	4.94
129	Warren Durbin, Independence	20.71	4.06	4.94
130	E. R. Hoover & Son, Independence	20.71	4.06	4.94
131	Simon Mayer, Clinton	20.71	4.06	4.94
132	F. E. Neelis & Co., Hammond	20.71	4.06	4.94
198	Babington Bros., Ltd., Franklinton	21.65	4.03	4.90
199	Babington Bros., Ltd., Franklinton	21.65	4.03	4.90
200	D. M. Wadsworth & Bro., Covington	21.65	4.03	4.90
201	Royals & Magee, Warrerton	21.65	4.03	4.90
202	J. R. Abels, Ponchatoula	21.65	4.03	4.90
203	A. G. Cook, Amite City	21.65	4.03	4.90
204	J. A. Burres & Co., Covington	*21.65	4.03	4.90
205	J. A. Burres & Co., Covington	21.65	4.03	4.90
206	J. R. Abels, Ponchatoula	21.65	4.03	4.90
207	S. D. Bullock, Covington	21.65	4.03	4.90
208	E. R. Hoover & Son, Independence	21.65	4.03	4.90
209	Babington Bros., Franklinton	21.65	4.03	4.90
210	J. R. Abels, Ponchatoula	21.65	4.03	4.90
211	H. J. Smith, Covington	21.65	4.03	4.90
212	M. A. Magee & Son, Zona	21.65	4.03	4.90
213	Babington Bros., Ltd., Franklinton	21.65	4.03	4.90
214	Mrs. A. M. Holliday, New Orleans	20.03	3.91	4.74
		20.03	3.91	4.74

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Total Phosphoric Acid.....	Nitrogen.....	Ammonia ... ..
	Standard Guano and Chemical Manufacturing Co., New Orleans. PURE RAW GROUND BONE—Continued.			
215	S. Grechman, Independence .....	20.03	3.91	4.74
216	E. P. Ellis, New Orleans .....	20.03	3.91	4.74
217	Babington Bros., Ltd., Franklinton .....	20.03	3.91	4.74
218	B. E. Stewart, Springfield .....	20.03	3.91	4.74
219	B. C. Starks, Springfield .....	20.03	3.91	4.74
220	John H. Hanna, New Orleans .....	20.03	3.91	4.74
381	Bickham & Son, Bickham .....	20.37	3.98	4.83
382	M. A. Magee & Sons, Covington .....	20.37	3.98	4.83
383	Cockern Bros., Covington .....	20.37	3.98	4.83
384	S. D. Bullock, Covington .....	20.37	3.98	4.83
385	Babington Bros., Franklinton .....	20.37	3.98	4.83
386	H. J. Smith, Covington .....	20.37	3.98	4.83
387	Myles Salt Co., New Orleans .....	20.37	3.98	4.83
388	D. M. Wadsworth, Covington .....	20.37	3.98	4.83
389	J. Steckler Seed Co., New Orleans .....	20.37	3.98	4.83
390	W. N. Graves, Warnerton .....	20.37	3.98	4.83
391	D. E. Branch & Co., Warnerton .....	20.37	3.98	4.83
392	E. J. Frederick, Covington .....	20.37	3.98	4.83
393	W. R. McKowen & Co., Jackson .....	20.37	3.98	4.83



394	J. A. Burres & Bro., Mt. Herman	20.37	3.98	4.83
395	J. A. Burres & Bro., Warnerton	20.37	3.98	4.83
396	E. W. Ott, Mt. Herman	20.37	3.98	4.83
398	J. M. Brock & Bro., Mt. Herman	20.37	3.98	4.83
397	I. L. Heyman & Son, Clinton	20.37	3.98	4.83
399	R. H. Magee, Varnado	20.37	3.98	4.83
400	S. P. Richardson, Mt. Herman	21.01	4.00	4.86
401	J. R. Abels, Ponchatoula	21.01	4.00	4.86
402	D. H. Sanders, Amite City	21.01	4.00	4.86
403	W. R. McKowen & Co., Jackson	21.01	4.00	4.86
404	J. E. Bateman & Co., Warnerton	21.01	4.00	4.86
405	E. W. Ott, Mt. Herman	21.01	4.00	4.86
406	J. M. Brock & Co., Mt. Herman	21.01	4.00	4.86
407	S. P. Richardson, Mt. Herman	21.01	4.00	4.86
408	Collins Bro., Warnerton	21.01	4.00	4.86
530	Babington Bros., Ltd., Franklinton	20.45	4.00	4.86
531	Burres & Bro., Warnerton	20.45	4.00	4.86
532	Royals & Magee, Warnerton	20.45	4.00	4.86
533	Mrs. B. Stern, Amite City	20.45	4.00	4.86
534	Jonie Levy, Clinton	20.45	4.00	4.86
535	Bickham & Sons, Bickham	20.45	4.00	4.86
536	O. P. Thomas, Warnerton	20.45	4.00	4.86
537	S. P. Richardson, Mt. Herman	20.45	4.00	4.86
538	Perkins & Miller Lumber Co., Westlake	20.45	4.00	4.86
539	D. H. Sanders, Amite City	21.66	4.37	5.31
540	K. P. Day, Clinton	21.66	4.37	5.31
541	W. R. McKowen & Co., Jackson	21.66	4.37	5.31
542	Wilson Mercantile Co., Gaydon	21.66	4.37	5.31

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Standard Guano and Chemical Manufacturing Co., New Orleans. PURE RAW GROUND BONE—Continued.		
		Total Phosphoric Acid.....	Nitrogen .....	Ammonia .....
543	Lampton Mercantile Co., Magnolia, Miss.	21.66	4.37	5.31
544	Babington Bros., Ltd., Franklinton	21.66	4.37	5.31
545	S. D. Bullock, Covington	21.66	4.37	5.31
546	W. R. McKowen & Co., Jackson	21.66	4.37	5.31
547	I. L. Heyman & Son, Clinton	21.66	4.37	5.31
548	Salem Brick and Lumber Co., New Orleans	21.66	4.37	5.31
549	H. L. Mayer, Clinton	21.66	4.37	5.31
550	J. O. Magee, Mt. Herman	21.66	4.37	5.31
551	Isadore Mayer, Clinton	21.66	4.37	5.31
552	I. E. Pheeps, Warnerton	21.66	4.37	5.31
553	D. E. Branch & Co., Warnerton	21.66	4.37	5.31
554	Lampton Mercantile Co., Magnolia, Miss.	21.66	4.37	5.31
555	S. M. Wadsworth & Bro., Covington	21.66	4.37	5.31
789	Babington Bros., Covington	21.33	4.18	5.08
790	Bickham & Son, Bickham	21.33	4.18	5.08
791	E. McD. Anderson, Baton Rouge	21.33	4.18	5.08
792	Wm. Atkinson & Bacot Co., Osyka, Miss.	21.33	4.18	5.08
793	Wm. Atkinson & Bacot Co., Osyka, Miss.	21.33	4.18	5.08
794	Mrs. B. Stern, Amite City	21.33	4.18	5.08

795	Babington Bros., Ltd., Covington	21.33	4.18	5.08
796	Abney & Magee, Mt. Herman	21.33	4.18	5.08
797	J. O. Magee, Sunny Hill	21.33	4.18	5.08
798	Wm. Atkinson & Bacot Co., Osyka, Miss.	21.33	4.18	5.08
799	S. Israel, Clinton	21.33	4.18	5.08
800	J. A. Burres & Co., Mt. Herman	21.33	4.18	5.08
801	Simon Grechman, Independence	20.89	4.09	4.97
802	D. M. Wadsworth & Bro., Covington	20.89	4.09	4.97
803	H. J. Smith, Covington	20.89	4.09	4.97
804	D. H. Sanders, Amite City	20.89	4.09	4.97
805	Isadore Mayer, Clinton	20.89	4.09	4.97
806	Babington Bros., Ltd., Covington	20.89	4.09	4.97
807	Mrs. B. Stern, Amite City	20.89	4.09	4.97
808	B. M. Morrison, Hammond	20.89	4.09	4.97
809	W. R. McKowen & Co., Jackson	20.89	4.09	4.97
810	Wilson Mercantile Co., Wilson	20.89	4.09	4.97
811	J. W. Desonges, Hammond	20.89	4.09	4.97
812	D. N. Barrow, Ass't Director, Calhoun	20.89	4.09	4.97
821	Luke Elliot, Amite City	20.67	4.05	4.92
822	J. A. Burres & Co., Wagnerton	20.67	4.05	4.92
823	S. Israel, Clinton	20.67	4.05	4.92
824	Mrs. W. G. Wilson, Tangipahoa	20.67	4.05	4.92
825	W. R. McKowen, Jackson	20.67	4.05	4.92
826	F. E. Needis & Co., Hammond	20.67	4.05	4.92
827	I. N. Varnado, Osyka, Miss.	20.67	4.05	4.92
828	Chas. M. East, Gayden	20.67	4.05	4.92
829	W. A. Bell, Amite City	20.67	4.05	4.92
830	Wm. Atkinson & Bacot Co., Osyka, Miss.	20.67	4.05	4.92

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Total Phosphoric Acid.....	Nitrogen .....	Ammonia ... ..
	Standard Guano and Chemical Manufacturing Co., New Orleans. PURE RAW GROUND BONE—Continued.			
831	W. R. McKown & Co., Jackson .....	20.67	4.05	4.92
832	A. Kluchin, Independence .....	20.67	4.05	4.92
833	S. Israel, Clinton, for— A. J. Hawsey, Saw Mill Crossing .....	20.67	4.05	4.92
1152	Lampton Mercantile Co., Lampton, Miss .....	21.00	4.12	5.00
1153	E. J. Frederick, Covington .....	21.00	4.12	5.00
1154	W. A. Bell, Amite City .....	21.00	4.12	5.00
1155	Mrs. B. Stern, Amite City .....	21.00	4.12	5.00
1156	H. C. Newman, Ltd., New Orleans, to— Gayden & Thompson, Gayden .....	21.00	4.12	5.00
1157	Sulphur Mercantile Co., Sulphur .....	21.00	4.12	5.00
1158	D. M. Wadsworth & Bro., Covington .....	21.00	4.12	5.00
1159	B. T. Young, Tangipahoa .....	21.00	4.12	5.00
1160	Thos. W. Thompson, Gayden .....	21.00	4.12	5.00
1161	J. R. Abels, Ponchatoula .....	21.00	4.12	5.00
1162	W. P. Mathews, Clinton .....	21.00	4.12	5.00
1163	A. S. McKneely, Wilson .....	21.00	4.12	5.00
1164	Wilson Mercantile Co., Wilson .....	21.00	4.12	5.00
1165	R. L. Taylor, Tangipahoa .....	21.00	4.12	5.00



1166	D. H. Sanders, Amite City	21.00	4.12	5.00
1167	S. Israel, Clinton	21.00	4.12	5.00
1168	C. T. Reams, Zachary	21.00	4.12	5.00
1169	S. D. Bullock, Covington	21.00	4.12	5.00
1170	H. G. Magee, Warronton	21.00	4.12	5.00
1171	W. R. McKowen & Co., Jackson	21.00	4.12	5.00
1172	J. M. Brock & Co., Brockdale	21.00	4.12	5.00
1578	Mrs. W. G. Wilson, Independence	25.10	4.00	4.85
1579	S. Israel, Clinton	25.10	4.00	4.85
1580	Jonie Levy, Clinton	25.10	4.00	4.85
1581	Isadore Mayer, Clinton	25.10	4.00	4.85
1582	W. R. McKowen & Co., Zachary	25.10	4.00	4.85
1583	Wilson Mercantile Co., Wilson	25.10	4.00	4.85
1584	B. L. Sanders, Ethel	25.10	4.00	4.85
1585	R. L. Taylor, Tangipahoa	25.10	4.00	4.85
1586	W. R. McKowen & Co., Jackson	25.10	4.00	4.85
1587	Wilson Mercantile Co., Wilson	25.10	4.00	4.85
1588	J. D. Brock, Brockdale	25.10	4.00	4.85
1589	Babington Bros., Ltd., Franklinton	25.10	4.00	4.85
1590	Jones & Whittaker, Baton Rouge	25.10	4.00	4.85
1591	D. H. Sanders, Amite City	25.10	4.00	4.85
1592	Bickham & Son, Bickham	25.10	4.00	4.85
1593	Wilson Mercantile Co., Wilson	25.10	4.00	4.85
1594	S. P. Richardson, Mt. Herman	25.10	4.00	4.85
1595	Lampton Mercantile Co., Magnolia, Miss.	25.10	4.00	4.85
1596	H. H. Smith, Covington	25.10	4.00	4.85
1597	Babington Bros., Ltd., Covington	25.10	4.00	4.85
1598	C. W. Ott, Mt. Herman	25.10	4.00	4.85

Station No.....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	SUMMITT Chemical and Chemical Manufacturing Co., New Orleans, La. PURE RAW GROUND BONE—Continued.		
		Total Phosphoric Acid.....	Nitrogen .....	Ammonia .....
1784	J. & B. Wadling, Canal Switch .....	23.00	4.05	4.92
1785	Mrs. B. Stern, Amite City .....	23.00	4.05	4.92
1786	S. Isard, Clinton .....	23.00	4.05	4.92
1787	R. L. Taylor, Tangipahoa .....	23.00	4.05	4.92
1788	Wilson Mercantile Co., Wilson .....	23.00	4.05	4.92
1789	Mrs. B. Stern, Amite City .....	23.00	4.05	4.92
1790	R. L. Taylor, Tangipahoa .....	23.00	4.05	4.92
1791	W. C. Harvell, Amite City .....	23.00	4.05	4.92
1792	W. W. Worthy, Eabel .....	23.00	4.05	4.92
1793	L. W. Crow, Gienorally .....	23.00	4.05	4.92
1794	Mrs. B. Stern, Amite City .....	23.00	4.05	4.92
1795	L. D. Morgan, Tangipahoa .....	23.00	4.05	4.92
1796	J. M. Brock, Mt. Herman .....	23.00	4.05	4.92
1797	W. A. Bell, Amite City .....	23.00	4.05	4.92
2109	D. H. Sanders, Amite City .....	23.00	4.05	4.92
2110	Jonie Levy, Clinton .....	26.08	3.50	4.25
2111	J. E. Crichton, Minden .....	26.08	3.50	4.25
2112	Salem Brick and Lumber Co., New Orleans .....	26.08	3.50	4.25
2113	H. H. Smith, Covington .....	26.08	3.50	4.25
		96.08	8.50	10.75

2114	J. Steckler Seed Co., Ltd., New Orleans	26.08	3.50	4.25
2115	I. Stewart, Mackerel	26.08	3.50	4.25
2116	E. J. Frederick, Covington	26.08	3.50	4.25
2117	S. Israel, Clinton	26.08	3.50	4.25
2118	Mrs. B. Stern, Amite City	26.08	3.50	4.25
2119	Wilson Mercantile Co., Wilson	26.08	3.50	4.25
2120	Laumpton Mercantile Co., Magnolia, Miss.	26.08	3.50	4.25
2121	Babington & Co., Ltd., Covington	26.08	3.50	4.25
2414	H. H. Smith, Covington	24.92	2.34	2.83
2415	D. H. Sanders, Amite City	24.92	2.34	2.83
2490	J. R. Abels, Ponchatoula	25.99	2.67	3.25
2634	S. Grechman, Independence	26.04	3.58	4.35
2635	Jno. Stranga, Madisonville	26.04	3.58	4.35
2636	Mrs. B. Stern, Amite City	26.04	3.58	4.35
2637	Mrs. W. G. Wilson, Independence	26.04	3.58	4.35
2885	R. E. Thompson, Wilson	25.48	2.96	3.59
2886	I. L. Heyman & Son, Clinton	25.48	2.96	3.59
2887	D. H. Sanders, Amite City	25.48	2.96	3.59
2888	A. Kluchin, Independence	25.48	2.96	3.59
1955	Mrs. Mollie Waters, Amite City	27.05	3.00	3.63
2987	A. Kluchin, Independence	23.25	3.37	4.09
2988	Audubon Place Commission, New Orleans	23.25	3.37	4.09
2989	J. R. Abels, Ponchatoula	23.25	3.37	4.09
2990	A. Kluchin, Independence	23.25	3.37	4.09
2991	Audubon Park Association, New Orleans	23.25	3.37	4.09

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Jackson Fertilizer Co., Jackson, Miss.		
		Total Phosphoric Acid.....	Nitrogen.....	Ammonia.....
	<i>Guarantee</i> .....	23.00	.....	3.00
2993	F. R. Hoover & Son, Independence .....	25.25	2.55	3.10
3001	F. E. Neelis & Co., Hammond, La. ....	28.85	2.29	2.77
New Orleans Acid and Fertilizer Co., New Orleans, La.				
	<i>Guarantee</i> .....	18.00	.....	2.50
348	C. A. Jenkins, Warner City .....	26.62	4.17	5.07
349	Jones & Pickett, Covington .....	26.62	4.17	5.07
350	Abney & Magee, Franklinton .....	26.62	4.17	5.07
351	Bickham Bros., Franklinton .....	26.62	4.17	5.07
438	B. Haden, Independence .....	25.55	4.13	5.02
906	Stanley & Gore, Wilson .....	25.07	4.11	4.99
1205	Jones & Pickett, Covington .....	25.85	4.14	5.03
1206	Jno. W. Grippen, Clinton .....	25.85	4.14	5.03
2154	Jones & Pickett, Covington .....	23.65	3.48	4.22
2155	Bickham, Magee & Co., Covington .....	23.65	3.48	4.22
2156	Jones & Pickett, Covington .....	23.65	3.48	4.22
2157	Jones & Pickett, Covington .....	23.65	3.48	4.22
2158	Jones & Pickett, Covington .....	23.65	3.48	4.22
2159	J. Freyhan & Co., Bayou Sara .....	23.65	3.48	4.22
2160	James Curry, St. Joseph .....	23.65	3.48	4.22



2161	B. R. Carney, Slaughter	.....	23.65	3.48	4.22
2875	Babington & Co., Covington	.....	24.36	3.80	4.61
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	New Orleans Acid and Fertilizer Co., Gretna, La.				
	CRESCENT CITY BONE MEAL.				
	<i>Guarantee</i> .....				
278	Hardy H. Smith, Covington	.....	23.00	2.50	.....
		.....	22.66	2.57	3.12
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	Standard Guano and Chemical Manufacturing Co., New Orleans, La.				
	FINE GROUND BONE (Stations Nos. 58, 59, 988, "Chicago Fine Ground Bone.")				
	<i>Guarantee</i> .....		18.50	2.50	.....
58	F. E. Neelis & Co., Hammond La.	.....	22.60	4.00	4.86
59	J. Steckler Seed Co., New Orleans	.....	22.60	4.00	4.86
529	Wilson Mercantile Co., Wilson	.....	21.52	3.68	4.47
988	F. E. Neelis & Co., Hammond	.....	25.00	3.92	4.76
989	W. R. Dodson, Baton Rouge	.....	24.75	3.92	4.76
1151	Wilson Mercantile Co., Wilson	.....	23.14	3.80	4.61
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	P. B. Mathiason Manufacturing Co., St. Louis, Mo.				
	BONE MEAL (Special Formula.)				
	<i>Guarantee</i> .....		23.00	2.50	.....
595	Hardy H. Smith, Covington	.....	23.00	2.70	3.28
1661	Hardy H. Smith, Covington	.....	23.00	2.68	3.26
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	Swift & Co., Chicago, Ill.				
	FINE GROUND BONE.				
	<i>Guarantee</i> .....		27.00	.....	4.50
4	B. M. Morrison, Hammond	.....	24.78	4.05	4.92

# FERTILIZERS WITH AVAILABLE PHOSPHORIC ACID AND AMMONIA.

During the fertilizer season just passed considerable quantities of fertilizers have been sold in the State containing only available phosphoric acid and ammonia. These were sold under the names of "Tankage," "Blood Bone," "Complete Fertilizer," and "Cane Grower." The following were analyzed:

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.				Nitrogen .....	Ammonia .....
		Insoluble.....	Total.....	Available....			
	Armour Fertilizing Works, Chicago, Ill. ARMOUR CANE GROWER.						
	<i>Guarantee</i> .....	.....	.....	8.00	.....	4.00	
119	Abby & Highland, Thibodaux .....	4.99	14.72	9.73	3.40	4.13	
604	Holloway & Postell, Plaquemine .....	3.80	12.00	8.20	3.43	4.17	
2561	A. A. Lorio, Lakeland .....	4.25	13.93	9.68	3.61	4.38	
2753	A. A. Lorio, Lakeland .....	2.58	11.03	8.45	3.34	4.05	
1312	Lilby & Blouin, Lafourche Crossing .....	4.25	13.63	9.38	2.98	3.60	
2609	G. A. Lorio, Hahnville .....	3.22	13.79	10.57	3.19	3.88	
	TANKAGE.						
	<i>Guarantee</i> .....	.....	4.75	4.25	.....	8.00	
71	Est. H. C. Minor, Houma .....	2.17	8.61	6.44	7.50	9.11	
603	LeBourgeois Bros., Mt. Airy .....	2.37	7.45	5.08	7.65	9.29	

# Armour & Co., Chicago, Ill. TANKAGE.

<i>Guarantee</i> .....	.....	.....	8.00	.....	4.00
1905 Geo. A. Lorio, Hahnville .....	3.62	12.10	8.48	3.40	4.13
<i>Guarantee</i> .....	.....	.....	8.00	.....	4.00
2592 Argyle Manufacturing and Refining Co., Houma .....	4.38	14.33	9.95	3.30	4.01

## TANKAGE.

<i>Guarantee</i> .....	3.75	.....	3.50	6.50	.....
2740 Est. Jno. Tessier, Hester .....	3.65	9.35	5.10	7.20	8.74
2713 LeBourgeois Bros., Mt. Airy .....	2.97	8.45	5.48	7.78	9.44

# Cudahy & Co.

## BLOOD AND BONE.

<i>Guarantee</i> .....	5.00	12.00	7.00	5.00	6.00
2566 Geo. A. Lorio, Hahnville .....	5.27	15.14	9.87	5.49	6.68
2771 Gramercy Sugar Co., Golden Grove Plantation, New Orleans .....	8.10	15.40	7.30	5.72	6.94
2916 B. Lemann & Bro., Donaldsonville .....	8.52	15.65	7.13	5.80	7.04
2917 B. Lemann & Bro., Donaldsonville .....	6.60	13.50	6.90	6.14	7.45
2918 B. Lemann & Bro., Donaldsonville .....	6.87	13.60	6.73	5.85	7.10
2919 B. Lemann & Bro., Donaldsonville .....	7.00	13.95	6.95	5.85	7.10
2920 B. Lemann & Bro., Donaldsonville .....	7.00	14.32	7.32	5.75	6.98
2921 B. Lemann & Bro., Donaldsonville .....	6.82	12.87	6.05	6.16	7.48
2772 Gramercy Sugar Co., Golden Grove Plantation, New Orleans .....	7.44	14.67	7.23	5.76	6.99
2739 Henry Charbonier, Colomb .....	9.67	16.87	7.20	5.48	6.65

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.			Nitrogen .....	Ammonia .....
		Insoluble....	Total.....	Available ....		
	Swift & Co.					
	<i>Guarantee</i> .....	.....	.....	8.00	.....	4.00
1139	Southside Plantation Co., New Orleans .....	3.43	11.80	8.37	3.97	4.82
2472	E. J. Gay, Union Plantation, Plaquemine .....	5.60	14.05	8.45	3.32	4.03
2477	E. J. Gay Pltg. Co., St. Louis Pl'n., Plaquemine.....	5.72	14.60	8.88	3.30	4.01
2620	A. H. Gay, Union Plantation, Plaquemine .....	5.20	14.41	9.21	3.31	4.02
	<i>Guarantee</i> .....	.....	.....	3.66	.....	4.00
1841	Libby & Blouin, Bush Grove Plantation, Lafourche Crossing .....	5.15	13.50	8.35	3.44	4.20
	<i>Guarantee</i> .....	.....	.....	8.00	.....	3.00
1545	Dugas & Landry, Sweet Home Plantation, Klotzville .....	.....	13.39	.....	3.20	3.87
2479	Dugas & Landry, Sweet Home Plantation, Klotzville .....	3.65	12.60	8.95	2.52	3.06



## FERTILIZERS CONTAINING PHOSPHORIC ACID AND POTASH.

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The past season a few fertilizers containing only available phosphoric acid and potash were sold in the State. The following were analyzed:

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Potash .....
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available ..	
	Virginia-Carolina Chemical Co., Memphis, Tenn. ROYAL COMPOUND.						
	.....	8.60	2.00	2.00	12.00	10.00	2.00
1314	Sulphur Mercantile Co., Sulphur .....	2.87	8.87	3.81	15.55	11.74	2.13
1315	C. B. Lake & Co., Ltd., Westlake .....	2.87	8.87	3.81	15.55	11.74	2.13
1316	Geo. J. Reiley, Clinton .....	2.87	8.87	3.81	15.55	11.74	2.13
1317	Jas. Soper, Iowa .....	2.87	8.87	3.81	15.55	11.74	2.13
1850	Calcasieu Rice Irrigation Co., Kinder .....	2.47	9.65	2.38	14.50	12.12	2.66
1851	A. W. Wehot, Westlake .....	2.47	9.65	2.38	14.50	12.12	2.66
1852	North American Land & Timber Co., Lake Charles .....	2.47	9.65	2.38	14.50	12.12	2.66
1853	E. Hammond, Lake Charles .....	2.47	9.65	2.38	14.50	12.12	2.66
1854	Perkins & Miller Lumber Co., Westlake .....	2.47	9.65	2.38	14.50	12.12	2.66
1855	A. D. McFarlin, Jennings .....	2.47	9.65	2.38	14.50	12.12	2.66
1856	Bryan Co., Edgerly .....	2.47	9.65	2.38	14.50	12.12	2.66
1857	C. B. Lake & Co., Westlake .....	2.47	9.65	2.38	14.50	12.12	2.66
1858	Calcasieu River Irrigation Co., Kinder .....	2.47	9.65	2.38	14.50	12.12	2.66
1961	C. B. Lake & Co., Westlake .....	2.67	9.26	3.10	15.03	11.93	2.40
1962	F. G. Lock, Sulphur .....	2.67	9.26	3.10	15.03	11.93	2.40
1963	North American Land & Timber Co., Lake Charles .....	2.67	9.26	3.10	15.03	11.93	2.40
1964	F. G. Lock, Sulphur .....	2.67	9.26	3.10	15.03	11.93	2.40
1965	Perkins & Miller Lumber Co., Westlake .....	2.67	9.26	3.10	15.03	11.93	2.40

1966	F. G. Lock, Sulphur	2.67	9.26	3.10	15.03	11.93	2.40
1967	Jas. Storer, Iowa	2.67	9.26	3.10	15.03	11.93	2.40
1968	Frazer & Mosan, Lake Charles	2.67	9.26	3.10	15.03	11.93	2.40
2202	Green, Shoemaker & Co., Crowley	3.20	8.83	2.63	14.66	12.03	2.34
2203	Jno. Ditty, Glen	3.20	8.83	2.63	14.66	12.03	2.34
2204	Bryan Co., Edgerly	3.20	8.83	2.63	14.66	12.03	2.34
2205	North American Land & Timber Co., Lake Charles	3.20	8.83	2.63	14.66	12.03	2.34
2206	Green, Shoemaker & Co., Crowley	3.20	8.83	2.63	14.66	12.03	2.34
2207	Sulphur Mercantile Co., Sulphur	3.20	8.83	2.63	14.66	12.03	2.34
2647	Green, Shoemaker & Co., Crowley	2.84	9.24	2.50	14.58	12.08	2.50
2648	Sulphur Mercantile Co., Sulphur	2.84	9.24	2.50	14.58	12.08	2.50
2649	Bryan Co., Ltd., Edgerly	2.84	9.24	2.50	14.58	12.08	2.50
2650	Sulphur Mercantile Co., Sulphur	2.84	9.24	2.50	14.58	12.08	2.50
2651	Bryan Co., Ltd., Edgerly	2.84	9.24	2.50	14.58	12.08	2.50
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ROYAL GRAIN GROWER.							
<i>Guarantee</i>		8.00	2.00	2.00	12.00	10.00	4.00
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1326	Jas. Storer, Iowa	7.30	6.27	1.94	15.51	13.57	3.21
1327	C. B. Lake & Co., Westlake	7.30	6.27	1.94	15.51	13.57	3.21
1867	Perkins-Miller Lumber Co., Westlake	3.25	7.84	2.03	13.12	11.09	4.36
1868	S. H. Clement, Chloce	3.25	7.84	2.03	13.12	11.09	4.36
1869	Bryan Co., Ltd., Edgerly	3.25	7.84	2.03	13.12	11.09	4.36
1870	Taylor, Evans & Cohort, Jennings	3.25	7.84	2.03	13.12	11.09	4.36
1871	P. Hammond, Lake Charles	3.25	7.84	2.03	13.12	11.09	4.36
1872	P. C. Weist, Amite City	3.25	7.84	2.03	13.12	11.09	4.36
2197	Bryan Co., Ltd., Edgerly	5.42	5.88	2.75	14.05	11.30	4.08
2198	Green, Shoemaker & Co., Crowley	5.42	5.88	2.75	14.05	11.30	4.08

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Potash .....
		Water Sol- uble .....	Reverted...	Insoluble...	Total.....	Available ..	
	Virginia-Carolina Chemical Co., Memphis Tenn. ROYAL GRAIN GROWER.						
	<i>Guarantee</i> .....	8.00	2.00	2.00	12.00	10.00	4.00
2199	Perkins & Miller Lumber Co., Westlake .....	5.42	5.88	2.75	14.05	11.30	4.08
2200	Green, Shoemaker & Co., Crowley .....	5.42	5.88	2.75	14.05	11.30	4.08
2201	Bryan Co., Ltd., Edgerly .....	5.42	5.88	2.75	14.05	11.30	4.08
2612	Bryan Co., Ltd., Edgerly .....	6.36	6.07	2.35	14.78	12.43	4.04
2613	Green, Shoemaker Co., Crowley .....	6.36	6.07	2.35	14.78	12.43	4.04
2614	H. C. Drew, Lake Charles .....	6.36	6.07	2.35	14.78	12.43	4.04
2645	Bryan Co., Ltd., Edgerly .....	6.36	6.07	2.35	14.78	12.43	4.04
2646	Hl. Canal and Rice Co., Jennings .....	6.36	6.07	2.35	14.78	12.43	4.04
	ROYAL RICE GROWER.						
	<i>Guarantee</i> .....	8.00	2.00	2.00	12.00	10.00	4.00
2344	Cary & Humphrey, Jennings .....	1.67	7.61	1.86	11.14	9.28	4.06
	PERUVIAN RICE GROWER.						
	<i>Guarantee</i> .....	8.00	2.00	2.00	12.00	10.00	2.00
2823	Cary & Humphrey, Jennings .....	2.95	8.92	4.20	16.07	11.87	2.46





Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Potash .....
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available ..	
	New Orleans Acid and Fertilizer Co., Gretna, La. DISSOLVED BONE AND POTASH—Contin						
2205	Parkins-Miller Lumber Co., Westlake .....	6.70	5.09	2.71	14.50	11.79	2.16
2206	J. M. Booe, Roanoke .....	6.70	5.09	2.71	14.50	11.79	2.16
2207	L. E. Robinson, Welsh .....	6.70	5.09	2.71	14.50	11.79	2.16
2208	L. L. Funk & Co., Iowa .....	9.07	4.69	3.40	17.16	13.76	2.24
2209	J. C. Estner Grocery Co., Lake Charles .....	9.07	4.69	3.40	17.16	13.76	2.24
2205	J. C. Estner Grocery Co., Lake Charles .....	9.07	4.69	3.40	17.16	13.76	2.24
2261	A. E. Moore, Lake Charles .....	10.72	3.29	3.10	17.11	14.01	2.65
2254	Paul W. Daniels, Welsh .....	12.24	2.42	2.50	17.16	14.66	2.91
	SPECIAL FORMULA.						
286	Babington Bros., Franklinton .....	8.06	5.26	2.27	15.59	13.32	3.15
	Standard Guano and Chemical Mfg. Co., New Orleans, La. DISSOLVED BONE AND POTASH.						
	<i>Guarantee not given.</i>						
146	G. T. Bodeau, Hammond .....	8.24	4.50	.48	13.22	12.74	3.06
419	G. T. Bodeau, Hammond .....	9.40	3.63	1.11	14.14	13.03	2.56
2851	H. C. Drew, Lake Charles .....	7.92	4.09	3.11	15.12	12.01	1.60
2997	G. T. Bodeau, Hammond .....	7.37	2.63	.50	10.50	10.00	1.60

## KAINITE

is a crude product of the German salt mines of Stassfurth and Leopoldshall, and consists chiefly of the sulphates of potash and magnesia, and the chlorides of magnesium and sodium. It is the form of potash most frequently met with in the markets of this State, though in many cases it is applied without any advantageous results. Its usual proportion of potash is about 12 per cent.

The following were analyzed:

No. Station	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Potash
	Standard Guano and Chemical Mfg. Co., New Orleans. <i>Guarantee not given.</i>	
157	Mrs. W. G. Wilson, Independence .....	12.28
266	M. McDougall, Covington .....	12.28
612	Jno. Tate & Co., Tangipahoa .....	12.08
750	Hy. Vermeersch, Ethel .....	12.18
751	W. R. Dodson, Baton Rouge .....	12.18
752	Lucky Bros., Bienville .....	12.18
753	Simon Grechman, Independence .....	12.18
754	D. N. Barrow, Calhoun .....	12.18
1070	Hy. Vermeersch, Ethel .....	12.23
1601	Hy. Vermeersch, Ethel .....	12.64
1602	Bickham & Son, Bickham .....	12.64
1603	C. F. Ratcliff, Zachary .....	12.64
1604	H. J. Smith, Covington .....	12.64
1725	W. W. Worthy, Ethel .....	12.41
1726	L. D. Morgan, Tangipahoa .....	12.41
2387	W. W. Worthy, Ethel .....	12.88
2444	*Louisiana Sugar Experiment Station, New Orleans..	13.22
2966	J. R. Abels, Ponchatoula .....	12.50
2967	J. R. Abels, Ponchatoula .....	12.50

No.	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Potash
	New Orleans Acid and Fertilizer Co., Gretna, La. <i>Guarantee</i> .....	12.00
120	B. M. Morrison, Hammond .....	11.99
265	B. Stern, Amite City .....	11.99
1473	L. T. Fortinberry, Smithsberg, Miss.....	12.00
1474	S. C. McKowen, Lindsay .....	12.00
2288	Bickham, Magee & Co., Covington .....	12.36
2289	Julius Freyhan & Co., Bayou Sara .....	12.36
2290	Lorche Dry Goods Co., Monroe .....	12.36

Station No.	NAME OF MANUFACTURER, BRAND AND PURCHASER.	Potash
	Jackson Fertilizer Co., Jackson, Miss.	
	<i>Guarantee</i> .....	12.00
156	F. E. Neelis & Co., Hammond .....	12.11
894	E. D. Reichert & Co., Roseland .....	12.38
895	E. D. Reichert & Co., Roseland .....	12.38
1058	E. D. Reichert & Co., Roseland .....	12.12
2994	F. E. Neelis & Co., Hammond .....	12.85
<hr/>		
	Hazlehurst Oil Mill & Fertilizer Co., Hazlehurst, Miss.	
	<i>Guarantee not given.</i>	
418	B. M. Morrison, Hammond .....	11.40
<hr/>		
	Shreveport Fertilizer Co., Shreveport, La.	
	<i>Guarantee</i> .....	12.00
1068	T. J. Lawhon, Lawhon .....	12.10
<hr/>		
	Meridian Fertilizer Factory, Meridian, Miss.	
	<i>Guarantee</i> .....	12.00
1475	W. A. Moody, Ethel .....	11.68
<hr/>		
	Planters' Fertilizer Mfg. Co., New Orleans.	
2986	*For Company .....	13.36
<hr/>		
* Samples indicated by a star not official.		

### MISCELLANEOUS FERTILIZERS.

Under this head are included the analyses of fertilizing materials not given in preceding tables. The following were analyzed:



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....	
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..				
BAT GUANO.										
1	*Norman & Freret, New Orleans	....	....	....	....	....	8.02	9.74	....	
2	*H. C. Gridley, New Orleans	....	....	....	....	....	7.60	9.23	....	
13	*Norman & Freret, New Orleans	....	....	....	....	....	8.22	9.98	....	
420	*Thos. Beary, Thibodaux	....	....	....	....	....	2.10	2.55	....	
859	*Leon Godechaux Co., New Orleans	....	....	....	....	....	.82	.99	....	
1953	*F. W. Freret, New Orleans	....	....	....	....	....	2.27	2.76	....	
1954	*F. W. Freret, New Orleans	....	....	....	....	....	5.48	6.65	....	
2652	*H. C. Gridley, New Orleans	....	....	....	....	....	5.45	6.61	....	
2653	*H. C. Gridley, New Orleans	....	....	....	....	....	.20	.24	....	
Swift & Co., Chicago, Ill.										
ACIDULATED BONE.										
155	*H. S. Crozier, New Orleans	5.84	14.55	2.60	22.99	20.39	.95	1.16	....	
Swift & Co., Chicago, Ill.										
LAWN FERTILIZER.										
	Guantee .....	....	....	....	23.00	....	....	4.50	....	
221	B. M. Morrison, Hammond	....	....	....	23.99	....	3.81	4.62	....	
2946	B. M. Morrison, Hammond	....	....	....	25.00	....	4.20	5.10	....	

Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.						Ammonia .....	Potash .....
		Water Sol- uble .....	Reverted...	Insoluble...	Total .....	Available ..	Nitrogen.....		
	Lee & Co., Pensacola, Fla. GROUND FISH BONE.								
	<i>Guarantee</i> .....			12.00		5.50		6.00	.50
1878	W. R. Koenig or Baldwin .....	.83	9.23	7.06	17.12	10.06	5.77	7.01	.56
	Standard Guano & Chemical Mfg. Co., New Orleans.. ORANGE TREE.								
	<i>Guarantee</i> .....			15.00			2.75		3.00
2945	A. C. Denis, New Orleans .....				18.05		4.25	5.16	4.20
	MURIATE OF POTASH.								
	<i>Guarantee</i> .....								50.00
24	Henry H. Chapin, At a Sale .....								50.88
1268	Milburn & Co., West Memphis .....								50.75
2416	L. S. Miller Seed Co., New Orleans .....								50.40
2446	*Louisiana Sugar Ex. Station, New Orleans .....								52.59
	SULPHATE OF AMMONIA.								
2445	*Louisiana Sugar Ex. Station, New Orleans .....						21.00	25.49	....



Station No. ....	NAME OF MANUFACTURER, BRAND AND PURCHASER.	PHOSPHORIC ACID.					Nitrogen.....	Ammonia .....	Potash.....
		Water Sol- uble.....	Reverted...	Insoluble...	Total.....	Available ..			
1269	B. M. Morrison, Hammond .....	...	...	...	...	...	...	...	50.25
2212	E. P. Munson, Napoleonville .....	...	...	...	...	...	...	...	50.75
	<i>Guarantee</i> .....	...	...	...	...	...	...	...	50.00
2558	Ronaldson & Puckett Co., Baton Rouge .....	...	...	...	...	...	...	...	50.95
	<b>SULPHATE OF POTASH.</b>								
	<i>Guarantee</i> .....	...	...	...	...	...	...	...	50.00
121	B. M. Morrison, Hammond .....	...	...	...	...	...	...	...	50.05
	<b>NITRATE OF SODA.</b>								
	<i>Guarantee</i> .....	...	...	...	...	...	14.00	...	...
122	B. M. Morrison, Hammond .....	...	...	...	...	...	15.54	18.87	...
245	Dr. C. C. Buck, Venice .....	...	...	...	...	...	15.54	18.87	...
2708	H. H. Kennedy, Pleasant Hill .....	...	...	...	...	...	15.96	19.38	...
2787	Moore Bros., Shreveport .....	...	...	...	...	...	15.79	19.17	...
	<i>Guarantee</i> .....	...	...	...	...	...	....	15.00	...
2947	Dowling Bros., Gloster .....	...	...	...	...	...	12.51	15.18	...
	<b>BONE MEAL.</b>								
	<i>Guarantee</i> .....	...	...	18.00	...	4.00	....	2.50	...
222	Bickham, Magee & Co., Covington .....	.70	13.46	10.43	24.59	14.16	4.09	4.96	...
316	Bickham, Magee & Co., Covington .....	.70	13.46	10.43	24.59	14.16	4.09	4.96	...



317	Jones & Pickett, Covington .....	.70	13.46	10.43	24.59	14.16	4.09	4.96	....
318	Babington & Co., Covington .....	.70	13.46	10.43	24.59	14.16	4.09	4.96	....
319	Bickham, Magee & Co., Covington .....	.70	13.46	10.43	24.59	14.16	4.09	4.96	....
	Manufacturer and guarantee not given. FISH SCRAP.								
2450	*Louisiana Sugar Ex. Station, New Orleans .....	....	....	....	10.65	....	9.25	11.24	....
	DISSOLVED BONE BLACK.								
2469	*Louisiana Sugar Ex. Station, New Orleans .....	15.11	1.41	.07	16.65	16.58	....	....	....
	GROUND STEAMED BONE.								
2465	*Louisiana Sugar Ex. Station, New Orleans .....	....	....	....	24.60	....	4.06	4.92	....
	SLAG MEAL.								
2466	*Louisiana Sugar Ex. Station, New Orleans .....	....	....	....	19.80	....	....	....	....
	DRIED BLOOD.								
2468	*Louisiana Sugar Ex. Station, New Orleans .....	....	....	....	....	....	14.10	17.12	....
	FLOATS.								
2458	*Louisiana Sugar Ex. Station, New Orleans .....	....	....	....	23.92	....	....	....	....
	GROUND BONE BLACK.								
2459	*Louisiana Sugar Ex. Station, New Orleans .....	....	....	....	31.23	....	....	....	....

\* Samples indicated by a star not official.

## PARIS GREEN

is largely used in this State as an insecticide, chiefly for the destruction of the cotton caterpillar, whose ravages are frequently so injurious. This chemical consists chiefly of the "Arsenite of Copper," with a small proportion of the Acetate of Copper, and a first-class article should contain not less than 50 per cent. of arsenious acid, known in its pure state as white arsenic.

This article is frequently adulterated, and there are abundant opportunities for fraud in its purchase. Farmers and planters frequently complain of the ineffectiveness of Paris Green after use on their cotton; but they failed to take samples in accordance with the above law, and therefore have no means of definitely determining whether fraud has been practiced.

Many farmers and planters in central Louisiana have made report of the ineffectiveness of the Paris Green used on their cotton during the present season. This is reported after a failure, but they failed to take samples in accordance with the above law, and therefore had no means of ascertaining positively whether fraud had been perpetrated. 4

The law fully protects every farmer if he will observe it. Before buying, inspect packages and see that "Strictly Pure" and "Guaranteed," with the fac-simile of the signature of the Commissioner of Agriculture, are stamped on each. If they are, take a sample in accordance with directions of the law, and if after using little or no benefit accrue, have it analyzed by the official chemist, and, if deficient, damages can be recovered. The following samples have been analyzed:

Station No.	NAME OF DEALER AND PURCHASER	Arsenious Acid
	Finlay, Dicks & Co., New Orleans, La.	
1	O. P. Howard, Coushatta .....	54.62
2	Corley & Singleton, Lecompte .....	54.62
3	Atkins & Ivy, Des Arc .....	54.62
4	Nelkin Mercantile Co., Natchitoches .....	54.62
5	A. A. Dean, Fairmont .....	54.62
6	Atkins & Ivy, Des Arc .....	54.62
7	S. L. Cohn, Newellton .....	54.62
8	J. W. Siran, Quadrate .....	54.62
9	George Drug Co., New Iberia .....	54.62
10	E. & J. Kock, Belle Alliance .....	54.62
11	E. F. Goldsby, Amite .....	54.62
21	Bunkie Drug Co., Bunkie .....	54.35
22	E. V. Delieux, Natchitoches .....	54.35
23	P. J. Bennett & Co., Chenaville .....	54.35

Station No.	NAME OF DEALER AND PURCHASER	Arsenious Acid
	Vermont Chemical Mfg. Co., New York.	
12	N. O. Cheuvert, Plane Reville .....	54.66
13	J. J. Lammiman, Ville Platte .....	54.66
14	J. B. McClelland, Opelousas .....	54.66
15	S. D. Roberts, Garland .....	54.66
16	Carrroll Jones, Chalier .....	54.66

	L. N. Brunswick & Co., New Orleans, La.	
17	C. W. Cox & Co., Duckport .....	54.67
18	W. J. O'Brien, Mound .....	54.67
24	F. M. Brooks & Son, Baton Rouge .....	54.78
25	T. J. Maguire, Baton Rouge .....	54.78
26	B. C. Dean, Boyce .....	54.78

Station No.	NAME OF DEALER AND PURCHASER	Arsenious Acid
	I. L. Lyons & Co., New Orleans, La.	
19	Sam Waishaur, Alexandria .....	55.04
20	I. L. Lyons & Co., New Orleans .....	55.04
27	D. Lehman, Alexandria .....	54.63
28	R. B. & J. H. Williams, Natchez .....	54.63
29	J. H. Williams, Montgomery .....	54.63
30	H. Geiger, Alexandria .....	54.63
31	S. Jackson, Alexandria .....	54.63
32	H. C. Paulsen, Baton Rouge .....	54.63
33	H. A. Boyce, Boyce .....	54.63
34	H. Geiger, Alexandria .....	54.63
35	A. Simonin, Alexandria .....	54.63

Station No.	NAME OF DEALER AND PURCHASER	Arsenious Acid
36	Theo. Bock, Port Allen .....	54.63
37	Garig Hardware Co., Baton Rouge .....	54.63
38	Shaw & Melder, Forest Hill .....	54.63
39	J. W. Cockerham, Natchitoches .....	54.63
40	Weil Bros. & Bauer, Alexandria .....	54.63
41	O. H. Lamlie, Natchitoches .....	54.63
42	E. V. Weems, Lamourie .....	54.63
43	Rus C. Jones, Chalier .....	54.63
44	J. P. Prodas, Cades .....	54.63
45	Batcher & Lauther, Milburn .....	54.63
46	C. F. Knolle, Bunkie .....	54.63
47	Fisher & Fisher, Livonia .....	54.63
48	L. P. Whittington, Alexandria .....	54.63
50	H. S. Grosseus, Alexandria .....	54.63
51	J. McMills, Colfax .....	54.63
52	J. H. Smith, Campiti .....	54.63
53	L. J. Holkemps, Moreland .....	54.63
54	Simmons, Perkins & Co., Simmesport .....	54.63
55	S. Jackson, Alexandria .....	54.63
56	L. P. Whittington, Alexandria .....	54.63
57	J. T. Johnson, Bunkie .....	54.63
58	Weil Bros. & Bauer, Alexandria .....	54.63
59	W. D. Haas & Co., Bunkie .....	54.63
60	M. Hertzog, Derry .....	54.63
61	C. C. Nash, Colfax .....	54.63
62	C. Bertrand, Derry .....	54.63
63	P. S. Prudhomme, Natchitoches .....	54.63
64	Cook, Trichell & Co., Natchitoches .....	54.63
65	H. A. Boyce, Boyce .....	54.63
66	Mayer & Weinburg, Lamourie Bridge .....	54.63
67	Albert Landing, New Iberia .....	54.63
68	J. A. Prudhomme, Bermuda .....	54.63
69	Jones & Whittaker, Baton Rouge .....	54.63
70	Thos. Jones, Woodlawn .....	54.63
71	Theo. Bock, Port Allen .....	54.63
49	L. P. Whittington, Alexandria .....	54.63





Annual Statistical Table of Tankage and Commercial Fertilizer Tonnage, showing Number of Inspections and Tons Shipped to Points in Louisiana for the Season 1901-1902.

PARISHES	Increase Commercial Tonnage.	Decrease Commercial Tonnage.	Increase Tankage Tonnage.	Decrease Tankage Tonnage.	Total Commercial Tonnage Season 1900—1901	Total Tankage Tonnage Season 1900—1901	Total Commercial Tonnage Season 1901—1902	Total Tankage Tonnage Season 1901—1902	INSPECTOR N. E. CALHOUN, Calhoun District.			INSPECTOR B. H. LYONS, Leesville District.			INSPECTOR J. C. MURPHY, Terrebonne District.			INSPECTOR MILLARD S. PERKINS, Baton Rouge District.			INSPECTOR CHAS. H. O'ROURKE, New Orleans District.			Total Number of Inspections, Season 1900-1901	Total Number of Inspections, Season 1901-1902	Increase Number of Inspections.	Decrease Number of Inspections.	Number of Sacks Shipped Season 1901-1902	
									Inspections.	Number of Tons Shipped	Number of Sacks Shipped	Inspections.	Number of Tons Shipped.	Number of Sacks Shipped	Inspections.	Number of Tons Shipped.	Number of Sacks Shipped	Inspections.	Number of Tons Shipped.	Number of Sacks Shipped	Inspections.	Number of Tons Shipped.	Number of Sacks Shipped						
Acahula	359.50				32.50		292				6	45	1700					29	1550	23860	15	207	4020	4	21	17		5720	
Assumption	30.60		552.80		835.36	1894	282.50	2414										23	1146.50	22350	56	1146.50	22350	56	52	35	4	4020	
Avozelles	22		989		439	1259	469.60	2248										34	469.60	9389	32	469.60	9389	32	87	35		3474	
Bienville	1327.35				27		49											3	49	980	2	49	980	2	3	1		980	
Bossier	32.75				981.25		2308.60		127	2044.10	39877							23	264.50	5140	89	264.50	5140	89	160	61		45017	
Caddo					114.50		147.25		10	91.25	1825							6	56	1120	13	56	1120	13	16	3		2945	
Caldwell	837.90		163.25		188.40		25.15		1	25	500							1	15	3	13	15	3	13	2		503		
Cameron	58.45				1616.40		2454.30		1	30.50	610	58	945	18600				140	1509.30	29885	129	1509.30	29885	129	198	69		48485	
Catahoula					23.25		81.70											5	51.20	102	5	51.20	102	5	6	1		1634	
Chaliborne	408.50				33		30.45											3	30.45	603	1	30.45	603	1	3	2	11	603	
Concordia	25.45		2.55		853.50		1262		69	943	18830							33	319	6380	76	319	6380	76	102	26		25210	
DeSoto	144.10				4.55		30					1	30	600				9	116.75	2335	1	116.75	2335	1	1			600	
East Baton Rouge	432.50			25	198.65		342.75		9	131	2620	15	95	1900				56	898	16940	60	898	16940	60	33	13		6555	
East Carroll					666	25	1098.50											10	260.50	6010	56	260.50	6010	56	66	16		21950	
East Feliciana	772.35			20	4326.35	50	5098.70	30										47	1885.50	38725	278	3243.20	55845	285	338	30		94570	
Franklin																													
Grant	38.80				69.80		108.60											2	12	240	3	96.60	1902	4	5	1		2174	
Iberia	35.50			115	1.52	400	187.50	285							6	285	4048	6	187.50	3750	12	187.50	3750	12	12			1758	
Iberville		211.90	166.50		1166.40	745	954.50	911.50										19	911.50	110543	38	954.50	12020	58	55		1	50143	
Jackson	107				10		117		9	117	2250							2			2			2	9	7		2250	
Jefferson		110	300		110	100		400										8	400	4800	5	400	4800	5	8	3		4800	
Lafayette		9.50			51		41.50											7	41.50	830	3	41.50	830	3	7	4		830	
Lafourche	39.50		466		137.50	1330	177	1796							39	1656	19994	13	317	5220	51	317	5220	51	53	1		25214	
Lincoln	34.68				601.55		636.23		37	462.23								14	174	3280	54	174	3280	54	51		3	1210	
Livingston	33.65				70.45		94.10											7	94.10	1781	3	94.10	1781	3	7	4		1781	
Madison		15			15																								
Morehouse	68.25				43		110.25		1	16.25	325							6	94	1880	3	94	1880	3	7	4		2205	
Natchitoches		14.50			15.50		15.50											2	15.50	310	1	15.50	310	1	2	1		310	
Orleans	36.50				30	165	69.87	159										40	228.87	2927	10	228.87	2927	10	40	30		2927	
Ouachita				6	33.37		69.87		11	185.50	3710							79	728	14577	150	728	14577	150	90		60	18267	
Plaquemines		497.15	475.99		913.50		913.50											39	1448.89	16627	42	1448.89	16627	42	50		3	19027	
Pointe Coupee	2.60	400.10			696	677	295.90	1152.99										3	2.60	46	2	2.60	46	2	5	3		746	
Rapides	47.05		25	15	2.60	85	70					2	40	800				21	289.85	5786	14	289.85	5786	14	28	14		10086	
Red River	15				442.80		489.85	25	2	45	900							2			2			2			2		
Richland		18			30		45											5	185	3500									
Sabine					16							3	15	300							15	80.85	1160	6	18	12		1760	
St. Bernard		15	215		15	125		340										9	210	1097	3	210	1097	3	4			4067	
St. Charles	62		161		193	480	255	651										22	506	12508	19	506	12508	19	22	3		12508	
St. Helena																													
St. James	3.50		578.50		426.60	1565	430.10	2143.50										71	2573.60	39568	54	2573.60	39568	54	71	17		39568	
St. John Baptist		134.20	215		311.25	415	177.05	630										18	807.05	12238	20	807.05	12238	20	18		2	12238	
St. Landry		74.80			287.80		213											12	213	4260	15	213	4260	15	12	3		4260	
St. Martin			5.00		15		20.00								1	20.00	240				1			1				240	
St. Mary		1225.20		485.07	1897.50	2659.56	672.30	2174.49							59	2186.49	26094				32	660.30	12603	149	91	58		38597	
St. Tammany		294.05			1635.10		1341.05											149	1341.05	17022	173	1341.05	17022	173	149		24	17022	
Tangipahoa		167.90			3633.40		3486.40											407	3486.40	60660	420	3486.40	60660	420	407		13	60660	
Tensas	53.60				20	43	73.60											7	73.60	1472	1	73.60	1472	1	7	6		1472	
Terrebonne	130.80		261.51		571.50	3785	702.30	3523.49							118	3523.49	42167				20	702.30	13546	136	138	2		55713	
Union	146.25				169		315.25											28	315.25	6105	10	315.25	6105	10	28	18		6105	
Vermillion		113.35			15.05		15.05											2	15.05	301	11	15.05	301	11	2		9	301	
Vernon	137				272.50		409.50					16	191	3520				21	218.50	4353	22	218.50	4353	22	37	15		8173	
Washington	1747.10				919		2665.10											207	2665.10	36996	89	2665.10	36996	89	207	208		36996	
Webster	2.60				753.10		762		42	633.15	12613							20	128.85	2577	67	128.85	2577	67	63	5		15190	
West Baton Rouge		434.50		180	565	180	130.50											6	130.50	2610	21	130.50	2610	21	6	15		2610	
West Carroll																													
West Feliciana	4				143		187											3	80	1600	15	107	1840	3	18	10		3440	
Winn	47				41		88		6	57	999							2	30	600	11	1	20	4	9	5		1619	
Total Increase Fertilizer Tonnage	5648.03	4500.21	4114.99	1150.58	27550.83	16007.56	30230.95	18973.97		4780.98	93884		1401	27720	1	12	240	67	2398	50015	1908	21638.47	385393	2394	2888	78	24	557252	
	4500.21		1150.58		16007.56		18973.97											110	4729.50	65558	149	6480.49	89663	2394	2384	214	24	248724	
	2679.62		2966.41		43558.39		49204.42								227	7763.98	93503					28118.96			494				
	2966.41				43558.39		43558.39				93884		27720			7776.98	98743			115573		475056						805976	
							5648.03		325		101				228			177			2057								

BATON ROUGE, LA., August 31st, 1902.

Respectfully submitted

CHAS. H. O'ROURKE,

*State Inspector of Fertilizers and Paris Green.*

Baton Rouge, La., Sept 12, 1902.

Act 126 of 1898 makes the Commissioner of Agriculture and Immigration the inspector of commercial fertilizer and paris green, and authorizes and directs the department to formulate rules and regulations, and to appoint inspectors to perform such duties as are necessary for the enforcement of the Act, and to keep a true and correct record of such inspections at the office at Baton Rouge. The object in making this report at this time is to give those using and selling fertilizers, and all others interested, a good idea of the work performed. This branch of the department of Agriculture and Immigration has become of such magnitude and importance, that it now enters into the contract between the seller and purchaser, in so far as the quality of the goods is concerned; in fact, goods are now offered for sale by the leading manufacturers of the West at a price per unit of ammonia and phosphoric acid, depending upon the analysis of the State chemist to determine the number of such units. This circumstance is only mentioned to show the importance of careful, actual inspection, and the absolute necessity of keeping records so that shipments can be traced and their value determined at the end of the season. Many settlements between manufacturers and purchasers depending to a large extent upon the said records, as per agreement and contract. This in itself is a testimonial of the highest order to the appreciation of the inspection of fertilizers and manner in which the work has been performed. This report embraces a tabular statement giving number tons fertilizers used in State during past season beginning September 1st, 1901, and ending September 1st, 1902; and also, for comparison, shows number of tons sold previous season. The tabular statement is made by parishes and shows number of tons tankage used separately from the other kinds of commercial fertilizers. Two thousand and three hundred and ninety-four actual inspections were made during the season, each representing a sample of the fertilizer inspected, and a report to the department. A subsequent report from the State chemist showing the guaranteed analysis, and just opposite on same page the analysis of State Chemist, a copy of which is mailed to seller and purchaser. To give an absolutely true idea we here give copies of the several blanks used for these records: No. 1 is

used by shipper to give notice to the inspector of the shipment of fertilizer, and should be filled in and mailed on date of shipment of fertilizer. The inspector makes proper record of same, and addresses a letter to point of destination requesting to be informed when fertilizers arrive. Blank No. 2 is used by the inspector when he inspects the fertilizer. The sample taken at this time being sent to State chemist for analysis with duplicate blank; and a triplicate mailed the office at Baton Rouge, where it is recorded in a book especially prepared for that purpose. No. 3 is the blank used by office to give to the purchaser and seller the result of inspection and analysis with the guarantee of the seller. To perform these duties and attend to tag account to the satisfaction of those interested requires the services of two men in Baton Rouge, and four inspectors stationed at different points in the State:

Attention is directed to the letters from inspectors. No complaints of unsatisfactory business from any cause have come to the office.



(No. 1.)

.....190..

Mr.....

Inspector of Fertilizers, Louisiana.

Sir:

We will this day make a shipment of fertilizer to Louisiana, as follows:

Number of Tons.....Number of Packages.....

Name of Brand.....

Manufacturer.....

Where Manufactured.....

Name of Purchaser.....

P. O. Address.....

Name of Plantation .....

Railroad Station.....

Name of Parish.....

Car No.....

.....

## GUARANTEED ANALYSIS.

Water Soluble Phosphoric Acid.....

Citrate Soluble Phosphoric Acid.....

Acid Soluble Phosphoric Acid.....

Reverted Phosphoric Acid.....

Insoluble Phosphoric Acid.....

Total Phosphoric Acid.....

Available Phosphoric Acid.....

Nitrogen .....

Ammonia.....

Potash (K<sub>2</sub>O).....

Yours,

.....

N.B.—Do not put two brands on one blank.

“Give name of Parish.

(No. 2.)

FERTILIZER INSPECTION BLANK  
LOUISIANA STATE BOARD OF AGRICULTURE  
AND IMMIGRATION

Inspection No.....Date.....  
Where Inspected.....  
Number of Tons.....Number of Packages.....  
Name of Brand.....  
Manufacturer .....

Where Manufactured.....  
Name of Purchaser.....  
Address of Purchaser.....  
Parish .....

GUARANTEED ANALYSIS.

Water Soluble Phosphoric Acid.....  
Citrate Soluble Phosphoric Acid.....  
Acid Soluble Phosphoric Acid.....  
Reverted Phosphoric Acid.....  
Insoluble Phosphoric Acid.....  
Total Phosphoric Acid.....  
Available Phosphoric Acid.....  
Nitrogen .....

Ammonia .....

Potash (K 2O) .....

.....

.....

Inspector.



(No. 3.)  
-----

# RECORD OF FERTILIZER INSPECTIONS, SEASON 1900 AND 1901.

Inspection No.....Date.....  
 Car No.....Car Initial.....  
 No. Tons.....No. Packages.....  
 Where Inspected.....  
 Name of Brand.....  
 Manufacturer.....  
 Where Manufactured.....  
 Name of Purchaser.....  
 Address of Purchaser.....  
 Parish .....

## GUARANTEED ANALYSIS.

## STATE CHEMIST' ANALYSIS.

Water Soluble Phosphoric Acid....	Date.....
Citrate Soluble Phosphoric Acid...	.....
Acid Soluble Phosphoric Acid.....	.....
Reverted Phosphoric Acid.....	.....
Insoluble Phosphoric Acid.....	.....
Total Phosphoric Acid.....	.....
Available Phosphoric Acid.....	.....
Nitrogen .....	.....
Ammonia .....	.....
Potash (K <sub>2</sub> O) .....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
.....	.....
Inspector.	Station No.....

Major J. G. Lee, Commissioner Agriculture and Immigration  
Baton Rouge, La.

Sir—I beg to hand you herewith annual letters from Inspectors of Baton Rouge, Calhoun, Leesville and Terrebonne Districts, requested as usual at the end of each season; statistical table of tonnage for New Orleans District; annual statistical table of Paris Green shipments and annual fertilizer tonnage report for the State of Louisiana.

Each of the Inspectors were requested to make such suggestions as they deemed advisable, that would improve the present inspection system. I hand you their letters as above mentioned.

The increased tonnage this season amounting to 5646 tons divides itself into 494 increased number of inspections, as follows: New Orleans 264 increase, Calhoun 96 increase, Leesville 76 increase, and Baton Rouge 73 increase. Terrebonne, 15 decrease. The only district that shows a decrease number of inspections, as you will note, is Terrebonne, which shows a slight decrease of fifteen inspections. This fact must not be taken to indicate a decrease amount of work for the reason that many of the shipments made to that district this year have been of smaller tonnage than last. Inspector Murphy's work for the past season is most commendable and I regret that his tonnage and number of inspections do not appear in the increase, as his efforts have deserved.

I respectfully call your attention to that part of the Inspector's letter from Calhoun District in which Inspector Calhoun refers to local inspections. I would recommend that discretionary powers be allowed him in regard to inspections of cotton and corn mixtures of the Shreveport, Minden and Ruston factories, at the same time adhering to the established rule of this department relative to the inspection of all fertilizer mixtures marketed in this State. All fertilizer plants prepare for the busy season ahead of time by mixing their most popular brands in large quantities at one time. Inspector Calhoun can easily avoid error by sampling large lots and keeping account of number of sacks in pile by previously arranging with shipper to this effect. All the records of shipments made from his territory, passing through his hands, he can easily arrange to control this feature of the proposition. His territory for the past season has shown a most gratifying increase of business as compared with last year, amounting to 2012 tons. This method would facilitate his work very much at a period of the

year when the slightest assistance is a great help and appreciating his efforts of the past season and understanding the practicability of his request, I take pleasure in recommending the same to you with my endorsement.

The increase of business has taxed your inspection department to the limit and with the listing of cotton seed meal on the list of fertilizers, on and after September 1st, will prove a greater responsibility in the undertaking wholly impossible to preform with the present force. I respectfully call your attention to this defect.

During the season 1901-1902 there were two consignments of fertilizers made into this territory that were not properly tagged and in accordance with the law, steps were taken towards the proper disposition of the goods. February 12th, a three tons shipment of "Gilead Phosphate" was found to be untagged in the railroad depot at Roseland, La., consigned to Messrs. E. D. Reichert & Co., Roseland, La., by Messrs. George Bartlett & Co., of Cincinnati, Ohio. As you no doubt remember, I immediately informed you of the fact and steps were taken to seize the goods. Mr. Reichert sought to comply with the law in every respect and was willing to pay all costs. Being allowed to do so, the matter was closed.

The second incident of this nature occurred at Gramercy, La. On May 19th cars Nos. 12107 and 23246 containing 20 and 25 tons "Blood and Bone" fertilizer, were inspected and found to be untagged in violation of Section 6 of Act 126 of 1898. The consignment was made by the Cudahy Packing Co., of South Omaha, Neb., and was shipped to the Gramercy Sugar Co., Gramercy, La. Immediate steps were taken preparatory to seizure, and the Cudahy Packing Co., met all costs arising from the proper tagging of the goods. Thus the second incident was closed.

It was evident that there was no intention to violate the law in either instance. With these two exceptions this season has been one of the most regular, throughout the State, of any previous year.

#### NON-INSPECTION REPORT SYSTEM.

The non-inspection report plan which we have adopted has established a more thorough method of correct compilation of tonnage and the work by districts, and with one exception has been followed out in this department, Leesville District having failed, for some reason or other to report non-inspections. Thus, with the perfected system of Inspectors reporting shipments that for some good reason the Inspector has been unable to inspect, the final requirement has been filled and has resulted in the desired method of record-keeping that facilitates the recording of all fertilizer shipments made to points in this State.

With this system it has become an easy matter to trace all records and by reports received in your office, the exact manner of their examination by the different inspector.

#### TANKAGE INSPECTIONS.

The system established at the commencement of this season has been followed out and has proved very satisfactory. The postal card method of notifying the different inspectors of arrival of consignments has developed a perceptible economy in time, effecting a more prompt inspection. The record of each consignment, kept in this office and the manner of keeping same has made it almost impossible for a shipment to be "lost sight of" and has greatly facilitated the handling by this department of shipments diverted from one point to another in this State. A record of each carload shipment of "tankage" made to a point in this State, is kept in this office and at no time during the past season would a delay for information regarding any of these consignments be pardonable. This system during the past season rectified an error in the guarantee analysis of a prominent tankage concern that assumed quite a proportion at one time, and had it not been for this system there would most undoubtedly have been a complicated state of affairs. These facts are called to account in part for the prompt work of the past year and to endorse for the next season the methods, as above set forth.

#### NON-INSPECTED SHIPMENTS.

The Planters Fertilizer Manufacturing Company having failed to notify this office of shipments of fertilizers made by them to points in this State, during this past season, they do not participate in the benefits of analysis of their goods. Neither will their name appear in the records of the Annual Fertilizer Bulletin. At the end of each month reports of these uninspected shipments were made to you and I respectfully request that a bulletin be mailed to each consignee of this uninspected lot that they might know the reason why they have not received reports of analysis. Samples taken from shipments were analysed during the season to see that there was no error in mixing their different brands but otherwise this is the only incident regarded. A new management has assumed control of this company and have agreed to notify this office of all fertilizer shipments to be made to points in this State.

#### TARDY NOTICES.

During the past season there were one or two instances where notifications of shipments were somewhat late in reaching this office but otherwise notifications were promptly received. The tardy manufacturer was requested to be more prompt and there is every reason to believe this feature will be eliminated during the coming season.



## INSPECTION OF COTTON SEED MEAL FERTILIZER.

Arrangements have been made for the proper stationery necessary for the keeping of records of this class of inspections and to distinguish this feature of the work from the rest, manufacturers' notification blanks and inspectors' report blanks have been ordered printed in blue. Therefore blue printed matter of this department indicate records pertaining to "Cotton Seed Meal Fertilizer". After consulting with Secretary N. S. Dougherty regarding the matter it has been decided best to have maps printed showing the different Inspection Districts with the names of the different Inspectors. These maps will be forwarded to the different manufacturers to guide them in the forwarding of notifications of "Cotton Seed Meal Fertilizer" shipments to the proper Inspectors. It would be inviting confusion to expect the manufacturer to notify the proper inspector unless some clear directory is furnished him as a guide and the map features appeared as the most suitable. I endorse Mr. Dougherty's idea. A record of each inspection and non-inspection report is to be kept by each inspector and a request made of the consignee to notify each one of arrival at destination of shipments made into their respective districts from outside this State, an addressed postal card being sent for the purpose by the Inspector into whose district the shipment is made. It would be well to consider the appointment of Inspectors in the neighborhood of Cotton Seed Oil Mills in this State where the same are in close locality to each other and also at those mills that are inconveniently located to be looked after by the present force. This would diminish the chance of Cotton Seed Meal Fertilizer shipments assuming uncontrollable proportions in those districts that are now heavily taxed with work, where the inspections would otherwise have to be made, and will also have an economic feature as to traveling expenses to an extent which I think alone would justify the appointment. I also suggest that all samples of Cotton Seed Meal Fertilizer Inspections be forwarded to State Chemist through this office that the record of inspection might be made in the books of this office.

The perfection of any system depends to a large extent on co-operation and mainly upon the establishment of a plan properly conceived to meet the needs and requirements of conditions. I respectfully make these suggestions gained from my experience with the "Tankage" proposition of the past two seasons the ideas that prompt me in this.

The most successful year of this department has just closed. The work throughout the different inspection districts has been admirably performed. The increased business has been handled with a promptness that has proven the efficiency of the



force. The planters have been, one and all, very courteous; and the manufacturers have shown a desire to facilitate the work to an extent worthy of more prominent mention. I desire to lay these facts plainly before you that your attention might dwell more strongly towards the needs of precaution into the consideration of the Cotton Seed Meal Fertilizer Inspection plan to be established, and in making the above suggestions I assure you the proficiency of the present inspection system has been given deserved consideration.

In conclusion, I thank you and all connected with the department who have assisted the work of inspections; I thank the manufacturers and brokers, planters and railroad agents throughout the State who have assisted and facilitated the work and submit all of these trusting the same will meet with your approval.

Respectfully,

CHAS. H. O'ROURKE,

State Inspector of Fertilizers and Paris Green.

New Orleans, Sept. 18th, 1902.

Baton Rouge, La., August 31, 1902.

Mr. Charles H. O'Rourke, 714 Union Street, New Orleans, La.

Dear Sir—I beg to submit my report for the year ending August 31st, 1902. I have made 177 inspections and reports covering 7,127.50 tons fertilizer. The territory in which I have worked includes the parishes of Avoyelles, East and West Baton Rouge, East and West Feliciana, Iberville, Ascension, Livingston, Point Coupee, St. Helena and part of Assumption.

The only case of seeming violation of the law which came under my observation was a complete fertilizer shipped from Nashville, Tenn., by the Armour Fertilizer Works to Messrs. Bridges, West & Co., Norwood, La., the goods were detained at the point of destination by the consignee until the shipper was informed of the matter when the proper number of tags were placed on the bags.

There was also an error in a shipment made by the Jackson Fertilizer Co. of Jackson, Miss., to Mr. B. R. Carney at Slaughter, La., in putting Mississippi tags on the goods, this like the previously mentioned error, was corrected as soon as the attention of the shipper was directed to it.

Some considerable trouble was occasioned by the Cudahy Packing Co. of South Omaha, Neb., shipping tankage to sugar planters without giving proper notice to the Inspector.

The goods were located and inspected only after considerable difficulty and expense.

In conclusion I wish to thank the manufacturers, planters, merchants and railroad agents in my district who have assisted me in my work.

I am, very truly yours,  
MILLARD S. PERKINS,  
State Inspector of Fertilizer.

Calhoun, La., July 17, 1902.

Chas. H. O'Rourke, State Fertilizer Inspector, New Orleans.

Dear Sir—I beg to herewith hand in my report of Fertilizers inspected during season of 1902. Showing amounts inspected and not inspected in the different parishhes.

I also send notice under separate cover. During a short time my work was so badly scattered and came in such a rush that it was impossible for me to reach all goods shipped before they were sold out. I wrote the Department and was relieved by being allowed an assistant for a short while. Now I think possibly this can be remedied by having or allowing me to do, at least the most of my inspecting of goods made at Shreveport, Minden and Ruston, at the factories. I have visited the factories frequently the past season and I find that they run possibly for two days in the week and then ship out from these until it is exhausted, especially so with their cotton and corn mixtures.

Of course the goods shipped from the factories outside the State would necessarily have to be inspected after arrival at their destination. My work has been greatly facilitated, by both planters and dealers, in a great many instances, very few exceptions if any. My report has been unavoidably delayed by the severe illness of my father. I trust that the delay will not inconvenience you.

With very kindest regards,

I am, very truly,

N. E. CALHOUN,

Inspector.

Murphy, P. O., July 1, 1902.

To Mr. Chas. H. O'Rourke, 714 Union Street, New Orleans.

Dear Sir—I have this season—1902, made 228 inspections of tankage in parishes of Assumption, Lafourche, Terrebonne, St. Mary, St. Martin and Iberia, amounting to 7775 tons. I have been very kindly received by all of the planters. They have assisted me in every way possible to get samples. The postal card system has worked very well and enabled me to keep up with my work. There are only a few planters who did not mail cards immediately upon arrival of cars, and in one or two instances I was present when car arrived and it was useless to mail card. Louis Kramer, Francis, sent no card; J. B. Levert, St John Plantation, no card; Ernest Roger, 1 car, Greenwood Plantation; L. F. Luthon, 1 car, no cards; Mrs. E. D. Burguires, Crawfish Plantation, car diverted and card not received by purchaser, Mrs. E. D. Burguires. There were one or two cars not reported by postal card from fact that the party who ordered and purchased the tankage shipped it to some cane grower. The railroad men, without an exception, rendered me all the assistance they could.

Hope if any error it will be returned for correction. With high regards,

Yours very truly,

J. C. MURPHY.

*Recapitulation of Paris Green Shipments, Inspections—Season 1901-1902, New Orleans District,  
Chas. H. O'Rourke, Inspector.*

NAME OF PARISH.	Num. o. pounds shipped.				Sacks ship'd			Inspections.		
	Increased Business.	Decreased Business.	Season 1900-1	Season 1901-2.	Season 1900-1	Season 1901-2	Season 1901-1	Season 1901-2.	Increase.	Decrease.
Aquia.....	5	.....	.....	5	.....	1	.....	1	1	.....
Ascension.....	.....	26	56	30	1	3	.....	1	.....	.....
Averelles.....	.....	383	3613	3228	64	103	18	6	.....	12
Cadeo.....	100	.....	.....	100	.....	.....	.....	1	1	.....
Cameron.....	.....	350	350	.....	25	.....	1	.....	.....	1
Concordia.....	.....	1720	2030	303	36	1	2	1	.....	1
East Baton Rouge.....	.....	123	411	.....	2	10	2	6	4	.....
East Carroll.....	286	677	677	.....	4	.....	4	.....	.....	4
Grant.....	.....	1603	1829	226	7	4	3	3	.....	.....
Iberia.....	.....	425	475	50	30	1	5	1	.....	4
Iberville.....	.....	56	56	.....	1	.....	1	.....	.....	1
Lafayette.....	.....	3188	3188	.....	210	.....	17	.....	.....	17
Madison.....	.....	1052	1052	.....	1	.....	3	.....	.....	3
Morehouse.....	.....	210	210	.....	.....	1	1	.....	.....	1
Natch toches.....	.....	6814	10396	3534	14	94	24	14	.....	10
Orleans.....	.....	568	568	.....	16	.....	10	.....	.....	10
Pinte Coupee.....	.....	185	687	502	4	2	3	1	.....	2
Rapides.....	2764	2356	6204	8963	148	228	18	19	1	.....
Rod River.....	.....	56	56	.....	56	.....	4	.....	.....	4
St. James.....	.....	1073	1073	.....	1	.....	1	.....	.....	1
St. Landry.....	.....	656	756	100	51	1	14	.....	.....	14
St. Martin.....	.....	112	112	.....	2	.....	9	1	.....	8
St. Mary.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1



Tangipahoa.....	3	3	3	3	1	.....	.....	.....	.....	1
Texas.....	1244	1244	1244	12	4	.....	.....	.....	.....	4
Vermilion.....	75	75	75	15	1	.....	.....	.....	.....	1
West Baton Rouge.....	.....	100	100	1	1	.....	.....	.....	.....	.....
Decrease number of pounds.....	22841	37293	.....	.....	.....	.....	.....	.....	.....	.....
Shipped season 1901-1902.....	3155	3155	17607	17607	.....	.....	.....	.....	.....	.....
As compared with season 1900-1901.....	19686	19686	.....	.....	.....	.....	.....	.....	.....	.....
Increase number of inspections.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Season 1901-1902.....	.....	.....	.....	.....	149	.....	.....	.....	7	100
As compared with season 1900-1901.....	.....	.....	.....	.....	56	.....	.....	.....	.....	7
Increase number of sacks.....	.....	.....	.....	.....	93	.....	.....	.....	.....	93
Shipped season 1901-1902.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
As compared with season 1900-1901.....	.....	.....	.....	.....	888	.....	.....	.....	.....	.....
.....	.....	.....	.....	455	455	.....	.....	.....	.....	.....
.....	.....	.....	.....	433	433	.....	.....	.....	.....	.....

*Respectfully submitted,*

CHAS. H. O'ROURKE,

State Inspector of Fertilizers and Paris Green.

714 Union Street, New Orleans, La., August 31, 1902.

Leesville, La., August 6, 1902.

Mr. Chas. H. O'Rourke, Baton Rouge, La.

My Dear Sir—As per your request I forward this day per mail, a detailed statement covering all inspections of fertilizers for my district during the past season. I find the farmers all favor the inspection of their fertilizers and wish prompt service on arrival of their cars which could be promptly given if they would notify the inspector when their shipments arrive. Without their assistance in that way it would be very hard to give good service without running your department to a great expense as it is often the case that shipments are from ten to fifteen days on the road. Therefore your agents, not knowing when shipments would arrive, often would make trips before the cars would get to their destination. I have heard some complaint from the goods of the Virginia-Carolina Chemical Co. on account of not being pulverized fine enough for distribution in a machine.

Yours Very Respectfully.

B. H. LYONS.

Circulating copy









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